TABLE AND CHARTS OF

EQUILIBRIUM NORMAL SHOCK

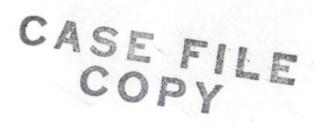
AND SHOCK-TUBE PROPERTIES

FOR PURE ARGON

WITH VELOCITIES

TO 18 km/sec

MILLER and WILDER





NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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Scientific and Technical Information Office

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Washington, D.C.

PREFACE

Equilibrium thermodynamic and flow properties are presented in tabulated and graphical form for moving, standing, and reflected normal shock waves in pure argon. Properties include pressure, temperature, density, enthalpy, speed of sound, entropy, molecular-weight ratio, isentropic exponent, velocity, and species mole fractions. Incident (moving) shock velocities are varied from 2 to 18 km/sec for a range of initial pressure of 5 N/m² to 500 kN/m². Working charts illustrating shock-tube performance with argon test gas and heated helium and hydrogen driver gases are also presented.

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SUMMARY

Equilibrium thermodynamic and flow properties are presented in tabulated and graphical form for moving, standing, and reflected normal shock waves in pure argon. Properties include pressure, temperature, density, enthalpy, speed of sound, entropy, molecular-weight ratio, isentropic exponent, velocity, and species mole fractions. Incident (moving) shock velocities are varied from 2 to 18 km/sec for a range of initial pressure of 5 N/m^2 to 500 kN/m^2 . Working charts illustrating shock-tube performance with argon test gas and heated helium and hydrogen driver gases are also presented.

INTRODUCTION

An investigation was recently performed which reviewed and compared the accuracy of various means of determining incident shock velocity in a shock tube and studied more fully the phenomenon of shock strengths which significantly exceeded theoretical prediction. (See ref. 1.) Air, carbon dioxide, helium, and argon were used as the test gas. For the range of shock velocity in reference 1, tables and charts of equilibrium thermodynamic and flow properties were available from the open literature for air, carbon dioxide, and helium. However, a scarcity of such information existed for argon.

More recently, the need to consider equilibrium thermodynamic and flow properties for argon arose when a shock-tube study using argon was proposed at the NASA Ames Research Center. Of particular interest in this proposed study, which is in support of an investigation of a pulsed, self-excited magnetohydrodynamic generator, are the species mole fractions (number densities) in the high-temperature region behind the incident shock. Hence, calculations in support of this study and the study of reference 1 were undertaken and are reported herein.

SYMBOLS

a	speed of sound, m/sec
B(T)	second virial coefficient, cm ³ /mol
C(T)	third virial coefficient, $(cm^3/mol)^2$
D(T)	fourth virial coefficient, $(cm^3/mol)^3$
h	specific enthalpy, m ² /sec ² or J/kg
p	pressure, N/m ²
p_{O}	reference pressure, 101.325 kN/m^2
R	universal gas constant, 8.31434 kJ/kmol-K
s .	specific entropy, kJ/kg-K
$\frac{sW_0}{R}$	nondimensional specific entropy
T	temperature, K
U	velocity, m/sec
$\mathbf{U_r}$	velocity of reflected shock, m/sec
Us	velocity of incident shock, m/sec
w	molecular weight, kg/kmol
$\mathbf{w_o}$	molecular weight of unionized argon, 39.944 kg/kmol
Z	compressibility factor
Z*	number of kilomoles of argon per number of kilomoles of argon at 300 K, $\frac{W_{0}}{W}$

 $\gamma_{\mathbf{E}}$ isentropic exponent, $\left(\frac{\partial \log p}{\partial \log \rho}\right)_{sW_0/R}$

 ξ_{ϕ} percent difference between equilibrium thermodynamic property ϕ calculated by present method and that obtained from tabulations of reference 9 (see eq. (B1))

 ρ density, kg/m³

 $ho_{
m O}$ reference density, 1.78096 kg/m³

Subscripts:

- state of quiescent test gas ahead of incident normal shock
- 2 state of test gas behind incident normal shock (see fig. 1)
- 2r state of test gas behind reflected normal shock into region (2) (see fig. 1)
- 2s state of test gas behind standing normal shock in region (2) (see fig. 1)
- 3 state of expanded driver gas (see fig. 1)
- 4 driver-gas conditions at time of diaphragm rupture

CONVERSION FACTORS AND CONSTANTS

Conversion factors (ref. 3) between the International System of Units (SI) and U.S. Customary Units for the quantities presented in table I and figures 2 to 4 are

$$1 \text{ N/m}^2 = 9.8692 \times 10^{-6} \text{ atm} = 1.4504 \times 10^{-4} \text{ psi} = 2.0885 \times 10^{-2} \text{ lbf/ft}^2$$

$$1 \text{ kg/m}^3 = 6.2428 \times 10^{-2} \text{ lbm/ft}^3 = 1.9403 \times 10^{-3} \text{ slug/ft}^3$$

$$1 \text{ J/kg} = 1 \text{ m}^2/\text{sec}^2 = 1.0764 \times 10^1 \text{ ft}^2/\text{sec}^2 = 4.3021 \times 10^{-4} \text{ Btu/lbm}$$

$$1 \text{ m/sec} = 3.2808 \text{ ft/sec} = 2.2369 \text{ mph}$$

Physical constants appearing herein for pure argon at an initial temperature T_1 of 300 K are

$$W_{O} = 39.944 \text{ kg/kmol}$$
 $h_{1} = 1561 \text{ kJ/kg}$
 $a_{1} = 322.6 \text{ m/sec}$
 $\gamma_{E,1} = 1.667$
 $Z_{1}^{*} = 1.000$

FLOW REGIONS AND COMPUTATION PROCEDURE

The regions of interest for a shock tube are illustrated in figure 1. The driver gas at the time of diaphragm rupture is designated as region 4, and the quiescent test gas is designated as region 1 (fig. 1(a)). Upon rupture of the diaphragm, an incident shock wave propagates into region 1 with a velocity U_s . The flow conditions immediately behind this shock are denoted as region 2 (fig. 1(b)). When the incident shock wave reaches the end wall of the shock tube, it is reflected back into region 2 (fig. 1(c)). The gas behind the reflected shock wave is brought to rest, relative to the shock tube. Flow conditions behind this reflected shock wave, which is propagating upstream with a velocity U_r , are designated as region 2r.

With a blunt model positioned in the driven section of the shock tube, a standing shock wave is formed at the model, provided the flow in region (2) is supersonic (fig. 1(d)). The flow conditions immediately behind this standing shock are designated as region (2s).

The conservation relations for an incident normal shock wave into region (1), a standing normal shock wave, and a reflected normal shock wave are presented in references 4 and 5, along with the method of solution. This method of solution of the three conservation relations for a normal shock wave and the equation of state (which represents the source of thermodynamic properties for real argon and cannot be expressed in closed analytical form when chemical processes occur) utilizes an iteration on the density immediately behind a normal shock wave (that is, ρ_2 , ρ_{2s} , or ρ_{2r}), and is commonly referred to as the method of successive approximations. Iterative tolerances on density of 0.05, 0.1, and 0.5 percent were briefly examined for values of quiescent testgas pressure p_1 of 10 N/m² and 100 kN/m² and incident shock velocity U_s from 2 to 18 km/sec. Refining the tolerance on ρ_2 , ρ_{2s} , and ρ_{2r} from 0.5 percent to 0.1 percent increased computer time by roughly a factor 3 to 4. However, the thermodynamic

properties and velocity in region (2), calculated with these two tolerances, agreed to within 0.2 percent, and species mole fractions greater than 10⁻³ agreed to within 0.5 percent. In the reflected shock region (2r), thermodynamic properties agreed to within 0.5 percent, reflected shock velocity to within 0.6 percent, and species mole fractions to within 1 percent. Maximum differences between these two tolerances were observed at the lower values of Us, corresponding to the initiation of argon ionization. As incident shock velocity increased, the percent difference in thermodynamic properties, in general, decreased and was often zero. This exact agreement (difference of zero) indicated that the tolerance of 0.1 percent was satisfied in the iterative process even though the actual tolerance was 0.5 percent. An iterative tolerance of 0.05 percent increased computer time by a factor of approximately 40 in comparison with a tolerance of 0.5 percent. Considering the large number of cases (combinations of p₁ and U_s) to be calculated, the required computer time for a tolerance of 0.05 percent was unacceptable. As a compromise between accuracy and computer time, an iterative tolerance on density of 0.5 percent was employed in the present calculations. The procedure for predicting shock-tube performance is discussed in reference 2. This procedure is commonly referred to as "simple shock-tube theory," since it is based on a simplified one-dimensional, inviscidflow model which assumes instantaneous diaphragm rupture, no shock-wave attenuation, and a ratio of driver-section cross-sectional area to driven-section cross-sectional area of unity.

Thermochemical equilibrium properties are obtained by using the procedure of references 6 and 7, which is based upon minimization of the Gibbs free energy. Basic assumptions for atomic species are (1) that the mixture is composed of ideal gases (interatomic force effects are neglected), and (2) that only electronic levels with principal quantum number less than or equal to 5 are included. For a given pressure and temperature, the free energies for individual species are computed from partition functions of statistical mechanics. The equilibrium composition is then obtained by minimization of the free energy. In the present study, iterations on species concentration (number of kilomoles of species per mass of mixture) were continued until the absolute value of each species concentration changed by less than 10^{-12} between successive iterations. This iterative criterion is referred to in reference 6 as the absolute criterion. A relative criterion was also employed to prevent termination of the iterations while a minor species was still changing by as much as 0.1 of its previous value. Because of the expected high temperatures in regions (2), (2s), and (2r) for argon over the present range of quiescent pressure (5 N/m² \leq p₁ \leq 0.5 MN/m²) and incident shock velocity (2 \leq U_S \leq 18 km/sec), a detailed argon model was employed. The species used in the argon model are e-, Ar, Ar+, Ar++, Ar+++, Ar4+, Ar5+, Ar6+, Ar7+, and Ar8+. Heats of formation and spectroscopic constants for these species were obtained from reference 8. Because of the

importance of these data for accurate determination of thermodynamic properties and species mole fractions, a listing of the input cards for the data is presented in appendix A.

Accurate solution of the relatively simple conservative relations for incident, standing, and reflected normal shock waves depends primarily on the real-gas equation of state (source of equilibrium thermodynamic properties). As discussed previously, the computer program of reference 2, used to calculate the present results, employs the method of references 6 and 7 as the equation of state. Results calculated by the method of references 6 and 7 have been compared with results calculated by other computational procedures for predicting equilibrium thermodynamic properties of several gases. In reference 7, it is concluded that the method of references 6 and 7 calculates first-order thermodynamic properties for air to within 1 percent and second-order properties to within 5 percent for $T \le 15~000 \text{ K}$ and $p \le 10~\text{MN/m}^2$. Shock crossing results for air and carbon dioxide, for which the method of references 6 and 7 was employed as the equation of state, were compared in references 4 and 5 with similar results from independent sources. This comparison revealed that for both gases, first-order thermodynamic properties and flow velocities were within 2 percent for $T \le 25\,000\,\mathrm{K}$ and $p \le 10\,\mathrm{MN/m^2}$. The upper limit on pressure recommended in reference 7 is to minimize imperfect-gas (intermolecular force) effects. Temperatures considered must be limited so that only negligible contributions are realized from coulomb interactions and from electronic energy levels past the fifth electron shell. These effects are neglected in the equilibrium program of references 6 and 7.

To examine possible differences for argon, comparison between computed thermodynamic properties from the present study and those computed by a second rigorous computational scheme is made and presented in appendix B. Equilibrium argon first-order properties - density, enthalpy, entropy, and molecular-weight ratio - calculated using the free-energy minimization method of references 6 and 7 are compared with those tabulated in reference 9. The results of reference 9 represent interpolations to the data of reference 10. The interpolations were performed to obtain tabulations of thermodynamic properties as a function of temperature for a given pressure. The computational procedure of reference 10 considers ionization, corrections for interatomic force effects, and corrections for coulombic force effects, and thus is a somewhat more rigorous computational scheme than that of references 6 and 7. A six-species (e-, Ar, Ar+, Ar++, Ar^{+++} , and Ar^{4+}) argon model was employed in reference 10 for temperatures to 35 000 K. The comparison presented in appendix B shows that the two sources of density, entropy, and molecular-weight ratio for equilibrium argon are in reasonably good agreement (within 4 percent) for temperatures from 2000 K to 35 000 K and pressure $p \le 10 \text{ MN/m}^2$. For enthalpy, agreement between the two sources over this temperature range was within 3 percent for $p \le 1 \text{ MN/m}^2$ and within 7 percent for $p \le 10 \text{ MN/m}^2$. Increasing the pressure from 10 MN/m² to 100 MN/m² resulted in significant increases in differences

between thermodynamic properties from the two sources. This trend is believed to be due primarily to interatomic force effects becoming significant at pressures greater than 10 MN/m^2 . To provide a rapid method for estimating the pressure-temperature region in which interatomic effects are significant for argon, the results of reference 11 were used. Simple relations for the virial coefficients, hence compressibility factor, were obtained from reference 11 and are also presented in appendix B.

In subsequent discussion of the present results, no upper limitations on pressure and temperature are imposed on the data presented in table I. However, a maximum pressure limitation of 10 MN/m^2 is imposed on the corresponding data shown in figures 2 to 4. Because of the detailed argon model used herein, no temperature limitation is imposed on the data in these figures. However, the user of figures 2 to 4 should exercise discretion for $T > 35\ 000\ \text{K}$.

DISCUSSION OF TABLE AND CHARTS

Table

The solutions for incident (moving), standing, and reflected normal shocks are presented in table I for pure argon. These tabulated computer results are arranged in groups of constant pressure in region (1) (P1), and the incident shock velocity (US1) is varied within the group. In table I, p_1 is varied from 5 N/m² to 500 kN/m² and U_S is varied from 2 to 11 km/sec in increments of 200 m/sec and from 11 to 18 km/sec in increments of 500 m/sec.

For each p_1 , a complete list of calculated thermodynamic properties (p, T, ρ , h, a, sW₀/R, Z*, and γ_E), flow velocity (U), and species volumetric composition is given for the three shock-tube regions under consideration. The rows in the upper portion of each tabulation, for a given p_1 and U_s , are identified by letters (FORTRAN symbols), the meaning of which, in terms of the defined symbols, is given in the following table:

FORTRAN symbol	Moving shock	Standing shock	Reflected shock
P	_{2/p1}	p _{2s} /p ₁	p _{2r} /p ₁
T	T ₂ /T ₁	${ t T_{2s}/ t T_1}$	$^{\mathrm{T}}\mathrm{_{2r}/^{\mathrm{T}}_{\mathrm{1}}}$
RHO	$^{\rho}{}_{2}/^{\rho}{}_{1}$	$^{ ho}_{2 m s}/^{ ho}_{1}$	$^{ ho}$ 2r $/^{ ho}$ 1
Н	h ₂ /h ₁	h _{2s} /h ₁	h _{2r} /h ₁
A	a ₂ /a ₁	^a 2s/ ^a 1	a_{2r}/a_1
s .	s_2/s_1	\cdot s_{2s}/s_1	s_{2r}/s_1
${f z}$	z_2^*/z_1^*	z_{2s}^*/z_1^*	$\mathbf{z_{2r}^*/z_1^*}$
GAME	$\gamma_{\mathrm{E,2}/\gamma_{\mathrm{E,1}}}$	$\gamma_{\mathrm{E,2s}}/\gamma_{\mathrm{E,1}}$	$\gamma_{\mathrm{E,2r}}/\gamma_{\mathrm{E,1}}$
U	U ₂ /a ₁	u_{2s}/a_1	u_r/a_1
•	1		

The lower portion of each tabulation presents the species composition for moving, standing, and reflected shock regions. Rows are identified by FORTRAN symbols for the species. (Note that AV denotes Ar^{5+} , AVI denotes Ar^{6+} , and so forth.)

The conditions in region ① are used to nondimensionalize calculated properties in regions ②, ②s, and ②r. The temperature in region ① T_1 is 300 K for all cases in table I. Corresponding thermodynamic properties for pure argon in region ① are given in the following table:

INITIAL CONDITIONS AHEAD OF INCIDENT
NORMAL SHOCK IN PURE ARGON

		the state of the s							
	$T_1 = 300 \text{ K}$								
	$a_1 = 322.6 \text{ m/sec}$								
	$h_1 = 1561 \text{ kJ/kg}$								
	$Z_1^* = 1.000$								
	•								
	$\gamma_{\mathrm{E,1}} = 1.667$	· · · · · · · · · · · · · · · · · · ·							
p ₁ , N/m ²	ρ_1 , kg/m ³	$\frac{s_1 W_0}{R}$							
5	0.00008007	28.54							
10	.0001601	27.85							
20	.0003203	27.16							
50	.0008007	26.24							
100	.001601	2 5.55							
200	.003203	24.85							
500	.008007	23.94							
1 000	.01601	23.24							
2 000	.03203	22.55							
5 000	.08007	21.63							
10 000	.1601	20.94							
20 000	.3203	20.25							
50 000	.8007	19.33							
100 000	1.601	18.64							
200 000	3.203	17.95							
500 000	8.007	17.03							

No maximum pressure and temperature limitations were imposed on the results of table I. The user should exercise discretion in the use of this table for $p > 10 \text{ MN/m}^2$ or T > 35 000 K.

Charts

Working charts for pure argon (corresponding to the results of table I) are shown in figures 2 to 4. In these figures, the nondimensionalized thermodynamic properties and flow velocity for regions (2), (2s), and (2r) are plotted as a function of incident shock velocity Us for various quiescent test-gas pressures. For each property, the incident-shock-velocity scale is 0 to 18 km/sec for an incident shock into region (1), for a standing shock, and for a reflected shock. The figures were generated by machine, and linear line segments were used to connect adjacent data points.

Unlike table I, a maximum pressure limitation of 10 MN/m^2 is imposed on the results of figures 2 to 4. Again, the properties in region 1 presented previously must be used to obtain the desired value of the thermodynamic property or flow velocity from the ratio presented. The user of figures 2 to 4 is cautioned to use discretion for $T > 35\ 000\ \text{K}$.

THEORETICAL SHOCK-TUBE PERFORMANCE

Before a study is performed in a shock tube, it is essential to ascertain the theoretical performance for the gas being tested. The wide range of flow conditions and very short test times (generally, a few μ sec to several msec) impose stringent requirements on shock-tube instrumentation. Thus, in preparing shock-tube instrumentation for a test, it is necessary that the physical quantities to be measured be known to within reasonable limits.

Results from the procedure for determining shock-tube performance (ref. 2) for pure argon test gas are shown in figure 5(a) for heated helium driver gas and figure 5(b) for heated hydrogen driver gas. In figure 5, the incident shock velocity U_S is shown as a function of the ratio of driver-gas pressure in region (1) to quiescent test-gas pressure in region (1) p_4/p_1 for various driver-gas temperatures T_4 . With p_4 , T_4 , and p_1 known, a theoretical value of U_S may be obtained from these figures. Corresponding thermodynamic properties and flow velocity in regions (2), (2s), and (2r) may be obtained from figures 2 to 4, or from table I. Variation in p_4/p_1 is obtained by varying p_1 . The range of T_4 is 300 K to 26 000 K for helium driver gas and 300 K to 700 K for hydrogen driver gas; p_4 is equal to 150 MN/m² for helium driver and equal to 15 MN/m² for hydrogen driver. At the maximum value of T_4 of 26 000 K and p_4 of

150 MN/m², ionization of the helium driver gas is small (Z^* is less than 1.05, or so (ref. 12)), and the results of reference 2 are applicable. Because of the large amount of computer time required to generate the results of figure 5, the argon model was simplified (that is, the species considered were reduced to e^- , Ar, Ar⁺⁺, Ar⁺⁺⁺, Ar⁺⁺⁺, and Ar⁵⁺) for these computations with no loss in accuracy.

CONCLUDING REMARKS

Equilibrium thermodynamic and flow properties are presented in tabulated and graphical form for moving, standing, and reflected normal shock waves in pure argon. Properties include pressure, temperature, density, enthalpy, speed of sound, entropy, molecular-weight ratio, isentropic exponent, velocity, and species mole fractions. Incident (moving) shock velocities are varied from 2 to 18 km/sec for a range of initial pressure of 5 N/m^2 to 500 kN/m^2 . Working charts illustrating shock-tube performance with argon test gas and heated helium and hydrogen driver gases are also presented.

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APPENDIX A

HEATS OF FORMATION AND SPECTROSCOPIC CONSTANTS FOR IONIZED ARGON

The accuracy associated with the computation of thermodynamic properties and species mole fractions by means of the free-energy minimization method of references 6 and 7 depends on the spectroscopic-constant and heat-of-formation inputs. Because of the importance of such input data, a listing of the input cards for species e-, Ar, Ar+, Ar^{++} , Ar^{+++} , Ar^{4+} , Ar^{5+} , Ar^{6+} , Ar^{7+} , and Ar^{8+} is presented. For each species, the first card contains (1) the chemical symbol for the species, (2) the integer number of electronic levels considered, (3) a flag which is zero for a monatomic species, (4) a flag to call a debug subroutine, (5) the molecular weight of the species, (6) the standard heat of formation of 1 mole of the species at 0 K. in ergs/mol, and (7) the symmetry number for the species. The cards immediately following the first card for a given species contain the degeneracy of the energy level followed by the energy of the electronic level of the species in cm⁻¹, for all electronic levels considered. The location of the decimal point in noninteger numbers is before the first digit. For example, for Ar+ (A+ in listing), 30 electronic levels are considered, the molecular weight is 39.94345 kg/kmol. the heat of formation is 0.1520235×10^{14} ergs/mol, and the symmetry number is zero. For the first electronic level the degeneracy is 6 and the energy is zero, for the second level the degeneracy is 2 and the energy is 108723.0 cm⁻¹, for the third level the degeneracv is 20 and the energy is 132400.0 cm⁻¹, and so forth.

The input cards for species e-, Ar, Ar+, and Ar++ were obtained from the author of reference 6; hence, for these species, the heats of formation and spectroscopic constants correspond to the tabulations presented in reference 6. (Note that these values of heats of formation and spectroscopic constants tabulated in ref. 6 were obtained from the tables of ref. 8.) Heats of formation and spectroscopic constants for the remaining species Ar+++, Ar⁴⁺, Ar⁵⁺, Ar⁶⁺, Ar⁷⁺, and Ar⁸⁺ were also obtained from reference 8. The reduced list of energy levels in comparison with the numerous energy levels presented in reference 8 was obtained by grouping terms which were close together in energy as a single energy level. The equivalent degeneracy for a group was the sum of the degeneracies of the energy levels contained within this group. For such a group, the energy level represents a weighted value based on the values of the degeneracies within the group.

In the method of references 6 and 7, electrons are treated as an atomic species. The internal partition function for an electron is its spin degeneracy. Thus, the electron is assumed to have a "ground-state" degeneracy of 2 and no electric excitation states.

APPENDIX A

The listing of the required input data for the present 10-species argon model is as follows (note that Ar^{4+} is denoted by AIV, Ar^{5+} by AV, and so forth):

20000000+01	E- 1.	0	0 5484	7000-03	```00000	000+0Ö	00000	000+00
10000000401	20000000+01		00000000+00					• • • • •
10000000+01 0000000+00 5000000+01 3144000+05 30000000+01 3751600+06 10000000+01 12000000+01 10000000+01 12000000+01 1075400+06 8000000+01 1075400+06 8000000+01 1075400+06 8000000+01 1075400+06 8000000+01 1175000+06 8000000+01 1175000+06 8000000+01 1175000+06 8000000+01 1175000+06 8000000+01 1185000+06 10000000+01 1175000+06 8000000+01 11500000+06 8000000+01 11500000+06 8000000+01 11500000+06 8000000+01 1150000+06 8000000+01 1150000+06 8000000+01 1175000+06 8000000+01 1175000+06 8000000+01 1175000+06 8000000+01 1175000+06 8000000+01 1175000+06 8000000+01 1175000+06 8000000+02 1185000+06 8000000+02 1185000+06 8000000+02 1185000+06 8000000+02 1185000+06 8000000+02 1185000+06 8000000+02 1185000+06 8000000+02 1185000+06 8000000+02 1185000+06 8000000+02 1185000+06 8000000+02 11850000+06 8000000+02 11850000+06 8000000+02 11850000+06 8000000+02 11850000+06 8000000+02 11850000+06 8000000+02 11850000+06 8000000+02 11850000+06 8000000+02 118500000+02 118500000+06 8000000+02 118500000+06 8000000+02 118500000+06 8000000+02 11850000+06 8000000+02 118500000+06 8000000+02 118500000+06 8000000+02 118500000+06 8000000+02 118500000+06 8000000+02 118500000+06 8000000+02 118500000+06 8000000+02 118500000+06 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 80000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 8000000+02 80000000+02 80000000+02 8000000+02 80000000+02 80000000+02 80000000+02 80000000+02 80000000+02 800000000+02 800000000+02 800000000+02 800000000+02 800000000+02 80000000000000000000000000000000000	A 30	O	0 3994	4000+02	00000	000+00	00000	000+00
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10000000+01			10000000+01	945540	00+05	300000	00+01	95400000+05
100000000401 10800000406 40000000401 11128000406 16000000402 11355000406 16000000402 11475000406 80000000401 11500000406 30000000401 11500000406 30000000401 11500000406 30000000401 117000406 30000000401 117000406 3000000402 1200000402 1			10410200+06	120000	000+02	1055000	00+06	80000000+01
1175000+06	10615000+06		10000000+01	107054	00+06	8000000	00+01	10722000+06
16000000+02	40000000+01		10800000+06	400000	00+01	1112800	00+06	16000000+02
11666000+06	11175000+06		80000000+01	112900	00+06	2000000	20+00	11355000+06
10000000+01	16000000+02		i1475000+06	800000	00+01	1150000	0+06	30000000+01
119300000+06	11666000+06		12000000+02	116960	00+06	8000000	0+01	11717000+06
32000000+02	10000000+01		11756300+06	160000	00+02	1185300	0+06	36000000+02
12270000+06	11930000+06	7	56000000+02	120250	00+06	200000	0+02	12070000+06
A+ 30	32000000+02		12175000+06	360000	00+02	1222000	0+06	56000000+02
6000000000000000000000000000000000000	12270000+06		20000000+02	123500	00+06	2800000	0+02	12413600+06
13240000+06	A+ 30	0	0 3994	3450+02	15202	350+14	000000	000+00
28000000+02	60000000+01		0000000+00	200000	10+00	1087230	0+06	20000000+02
14765000+06	13240000+06		15000000+05	134800	00+06	600000	0+01	13860000+06
12000000+02	280000000+02		14270000+06	600000	00+01	1452000	0+06	12000000+02
16100000+06	14765000+06		10000000+02	148750	00+06	1000000	0+02	15000000+06
260000000+02	12000000+02		15516000+06	300000	20+00	1583000	0+06	12000000+02
17970000+06	16100000+06		_20000000+01 <i>`</i>	167309	00+06	1400000	0+02	17060000+06
62000000+02 19020000+06 34000000+02 19220000+06 12000000+03 19400000+06 84000000+02 19600000+06 48000000+02 20000000+06 18000000+06 50000000+06 60000000+01 20859300+06 22000000+06 A++ 30 0 39942900+02 41851700+14 0000000+00 50000000+01 150000000+01 11120000+04 10000000+01 15700000+04 500000000+01 14010000+05 10000000+01 33267000+05 9000000+01 11440000+06 10000000+02 1280000+06 2800000+02 14465000+06 15000000+02 15695000+06 50000000+01 1743750+06 15000000+02 18200000+06 75000000+02 18950000+06 15000000+02 21450000+06 50000000+01 20000000+02 21080000+06 33000000+02 21450000+06 50000000+01 23500000+06 18000000+02 20470000+06 50000000+01 23500000+06 27000000+02 24000000+02 25800000+06 12190000+06 11100000+03 286000000+06 <	26000000+02		17300000+06	380000	00+02	1748000	9ó+ò	60000000+01
19400000+06 1800000+06 1800000+06 20500000+06 6000000+01 20859300+06 22000000+06 50000000+02 21500000+06 70000000+02 22000000+06 6000000+01 15700000+01 15700000+04 50000000+01 15700000+04 50000000+01 15700000+04 50000000+01 11440000+06 1200000+01 11440000+06 15000000+02 114465000+06 15000000+01 11440000+06 15000000+02 18200000+01 18200000+01 18200000+01 2000000+01 18200000+01 2000000+01 2000000+01 2000000+02 21450000+06 5000000+01 23500000+06 27000000+02 24603600+06 5000000+01 23500000+06 2700000+02 24603600+06 5000000+01 24603600+06 5000000+01 2700000+02 2880000+06 11100000+02 28100000+06 27000000+06 27000000+06 27000000+06 27000000+06 270000000+06 270000000+06 270000000+06 2700000000+06 270000000+06 2700000000000000000000000000000000000	17970000+06		40000000+02	183000	00+06	6000000	0+02	18600000+06
18000000+02 20500000+06 60000000+01 20859300+06 22000000+03 22000000+06 42000000+06 22000000+06 32000000+06 220000000+06 41851700+14 00000000+00 0000000+01 0000000+01 11120000+04 10000000+01 10000000+01 11120000+04 10000000+01 33267000+05 10000000+01 33267000+05 10000000+01 33267000+05 10000000+01 33267000+05 10000000+01 11440000+06 12000000+02 12800000+06 28000000+02 28000000+02 12800000+06 28000000+06 150000000+02 12800000+06 150000000+02 18950000+06 15000000+02 18950000+06 15000000+02 18950000+06 15000000+02 20470000+06 15000000+02 20470000+06 15000000+02 20470000+06 15000000+02 20470000+06 33000000+02 204700000+02 204700000+02 21080000+06 33000000+02 21080000+06 33000000+02 210800000+06 33000000+06 200000000+02 240000000+01 231500000+06 200000000+02 251000000+06 240000000+06 258000000+06 116000000+02 258000000+06 116000000+02 25800000	62000000+02		19020000+06	340000	00+02	1922000	0+06	12000000+03
18000000+02 20500000+06 60000000+01 20859300+06 22000000+03 22000000+06 42000000+06 22000000+06 32000000+06 220000000+06 41851700+14 00000000+00 0000000+01 0000000+01 11120000+04 10000000+01 10000000+01 11120000+04 10000000+01 33267000+05 10000000+01 33267000+05 10000000+01 33267000+05 10000000+01 33267000+05 10000000+01 11440000+06 12000000+02 12800000+06 28000000+02 28000000+02 12800000+06 28000000+06 150000000+02 12800000+06 150000000+02 18950000+06 15000000+02 18950000+06 15000000+02 18950000+06 15000000+02 20470000+06 15000000+02 20470000+06 15000000+02 20470000+06 15000000+02 20470000+06 33000000+02 204700000+02 204700000+02 21080000+06 33000000+02 21080000+06 33000000+02 210800000+06 33000000+06 200000000+02 240000000+01 231500000+06 200000000+02 251000000+06 240000000+06 258000000+06 116000000+02 258000000+06 116000000+02 25800000	19400000+06		84000000+02	196000	00+06	4800000	0+02	20000000+06
21000000+06 5000000+02 2150000+06 7000000+02 2200000+06 A++ 30 0 3994290+02 41851700+14 00000000+00 50000000+01 00000000+01 3000000+01 1112000+04 10000000+01 15700000+04 50000000+01 14010000+05 10000000+01 33267000+05 9000000+01 11440000+06 10000000+02 12800000+06 28000000+01 17437500+06 15000000+02 18200000+06 75000000+02 18950000+06 15000000+02 20470000+06 21000000+02 18200000+06 75000000+02 18950000+06 15000000+02 20470000+06 21450000+06 50000000+01 2000000+06 21080000+06 3300000+06 20470000+06 50000000+01 23500000+06 27000000+06 90000000+01 23150000+06 50000000+02 24603600+06 91000000+02 25100000+06 24000000+06 50000000+02 25800000+06 8200000+06 11100000+03 28600000+06 52400000+06 50000000+01 16000000+03 30200000+06	18000000+02		20500000+06	600000	00+01	2085930	0+06	
500000000+01 00000000+00 30000000+01 11120000+04 10000000+01 15700000+04 50000000+01 14910000+05 10000000+01 33267000+05 90000000+01 11440000+06 10000000+02 12800000+06 28000000+02 14465000+06 15000000+02 15695000+06 50000000+01 17437500+06 15000000+02 18200000+06 75000000+02 18950000+06 15000000+02 219660000+06 50000000+01 20000000+02 21080000+06 3300000+06 21000000+02 20830000+06 27000000+02 21080000+06 3300000+06 21450000+06 46000000+02 22450000+06 90000000+01 23150000+06 50000000+01 23500000+06 25100000+06 24000000+02 25800000+06 12700000+03 27000000+03 27850000+06 50000000+03 30200000+06 28200000+06 11100000+03 27850000+06 52400000+03 30200000+06 21219000+05 00000000+01 21090000+03 27850000+06 60000000+01 21219000+05 00000000000 <	21000000+06		500000000+02	215000	0.0+0.6	7000000	0+02	
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90000000+01 11440000+06 10000000+02 12800000+06 28000000+02 14465000+06 15000000+02 15695000+06 50000000+01 17437500+06 15000000+02 18200000+06 75000000+02 18950000+06 15000000+02 19660000+06 50000000+01 20000000+06 18000000+02 20470000+06 21000000+02 20830000+06 270000000+02 21080000+06 33000000+02 21450000+06 46000000+02 22450000+06 90000000+01 231500000+02 24603600+06 91000000+02 25100000+06 24000000+02 25800000+06 12700000+03 27000000+06 12100000+06 24000000+02 25800000+06 12700000+03 27000000+06 12100000+03 27850000+06 11600000+03 28200000+06 11100000+03 28600000+06 52400000+03 30200000+06 A+++ 24 0 0 39942350+02 81316593+14 00000000+00 0000000+01 21219000+05 20000000+01 34854000+01 21090000+05 60000000+01 1756400+06 40000000+01 11851500+06 20000000+01 11904400+06 4000000+01 14592100+06 60000000+01 146000000+01 17783300+06 12000000+02 25132477+06 60000000+01 25693036+06 10000000+01 26815938+06 20000000+01 29956320+06 14000000+02 29110322+06 4000000+01 29174870+06 6000000+01 29174870+06 60000000+01 29174870+06 60000000+01 29174870+06 60000000+01 29956320+06 14000000+02	50000000+01		00000000+00	300000	00+01	1112000	0+04	10000000+01
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15000000+02 18200000+06 75000000+02 18950000+06 15000000+02 19660000+06 50000000+01 20000000+06 18000000+02 20470000+06 21000000+02 20830000+06 27000000+02 21080000+06 33000000+02 21450000+06 46000000+02 22450000+06 90000000+01 23150000+06 50000000+01 23500000+06 26000000+02 24000000+06 50000000+02 24603600+06 91000000+02 25100000+06 2400000+02 25800000+06 12700000+03 27000000+06 12100000+03 27850000+06 11600000+03 28200000+06 11100000+03 28600000+06 52400000+03 3020000+06 4+++ 24 0 39942350+02 81316593+14 00000000+01 21219000+05 20000000+01 34854000+05 40000000+01 35035000+05 60000000+01 11756400+06 40000000+01 11851500+06 20000000+01 11783300+06 12000000+02 25132477+06 60000000+01 25693036+06 10000000+02 26815938+06	90000000+01		11440000+06	100000	00+02	1280000	0+06	28000000+02
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14465000+06		15000000+02	156950	00+06	500000	0+01	17437,500+06
21000000+02 20830000+06 27000000+02 21080000+06 33000000+02 21450000+06 46000000+02 22450000+06 90000000+01 23150000+06 50000000+01 23500000+06 26000000+02 24000000+06 50000000+02 24603600+06 91000000+02 25100000+06 24000000+02 25800000+06 12700000+03 27000000+06 12100000+03 27850000+06 11600000+03 28200000+06 11100000+03 28600000+06 52400000+03 3020000+06 4+++ 24 0 0 39942350+02 81316593+14 00000000+00 40000000+01 00000000+00 40000000+01 21090000+05 60000000+01 21219000+05 20000000+01 34854000+05 40000000+01 35035000+05 60000000+01 11756400+06 40000000+01 11851500+06 20000000+01 11904400+06 40000000+01 14592100+06 60000000+01 25693036+06 10000000+02 26815938+06 20000000+01 26888961+06 12000000+02 28951759+06 10000000+02	15000000+02		18200000+06	750000	00+02	1895000	0+06	15000000+02
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12700000+03 27000000+06 12100000+03 27850000+06 11600000+03 28200000+06 11100000+03 28600000+06 52400000+03 30200000+06 A+++ 24 0 0 39942350+02 81316593+14 00000000+00 40000000+01 00000000+00 40000000+01 21090000+05 60000000+01 21219000+05 20000000+01 34854000+05 40000000+01 35035000+05 60000000+01 11756400+06 40000000+01 11851500+06 20000000+01 11904400+06 40000000+01 14592100+06 60000000+01 14600000+06 40000000+01 16635600+06 20000000+01 16744400+06 20000000+01 17783300+06 12000000+02 25132477+06 60000000+01 25693036+06 10000000+02 26815938+06 20000000+02 28688961+06 12000000+02 28951759+06 10000000+02 29110322+06 40000000+01 29174870+06 60000000+01 29576269+06 20000000+01 29956320+06 140000000+02	50000000+01			260000	00+02	2400000	0+06	50000000+02
28200000+06	24603600+06		91000000+02					25800000+06
A+++ 24 0 0 39942350+02 81316593+14 00000000+00 40000000+01 00000000+00 40000000+01 21090000+05 60000000+01 21219000+05 20000000+01 34854000+05 40000000+01 35035000+05 60000000+01 11756400+06 40000000+01 11851500+06 20000000+01 11904400+06 40000000+01 14592100+06 60000000+01 14600000+06 40000000+01 16635600+06 20000000+01 16744400+06 20000000+01 17783300+06 12000000+02 25132477+06 60000000+01 25693036+06 10000000+02 26815938+06 20000000+02 28688961+06 12000000+02 28951759+06 10000000+02 29110322+06 40000000+01 29174870+06 60000000+01 29576269+06 20000000+01 29956320+06 140000000+02	12700000+03		27000000+06	121000	00+03	2785000	0+06	11600000+03
4000000+01 00000000+00 40000000+01 21090000+05 60000000+01 21219000+05 20000000+01 34854000+05 40000000+01 35035000+05 60000000+01 11756400+06 40000000+01 11851500+06 20000000+01 11904400+06 40000000+01 14592100+06 60000000+01 14600000+06 40000000+01 16635600+06 20000000+01 16744400+06 20000000+01 17783300+06 12000000+02 25132477+06 60000000+01 25693036+06 10000000+02 26815938+06 20000000+02 28688961+06 12000000+02 28951759+06 10000000+02 29110322+06 40000000+01 29174870+06 60000000+01 29576269+06 20000000+01 29956320+06 14000000+02	282000000+06		11100000+03	286000	00+06	5240000	0+03	30200000+06
21219000+05 20000000+01 34854000+05 40000000+01 35035000+05 60000000+01 11756400+06 40000000+01 11851500+06 20000000+01 11904400+06 40000000+01 14592100+06 60000000+01 14600000+06 40000000+01 16635600+06 20000000+01 16744400+06 20000000+01 17783300+06 12000000+02 25132477+06 60000000+01 25693036+06 10000000+02 26815938+06 20000000+02 28688961+06 12000000+02 28951759+06 10000000+02 29110322+06 40000000+01 29174870+06 60000000+01 29576269+06 20000000+01 29956320+06 14000000+02	A+++ 24	0	0 39942	350+02	813165	593+14	000000	00+00
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11904400+06 40000000+01 14592100+06 60000000+01 14600000+06 4000000+01 16635600+06 20000000+01 16744400+06 20000000+01 17783300+06 12000000+02 25132477+06 60000000+01 25693036+06 10000000+02 26815938+06 20000000+02 28688961+06 12000000+02 28951759+06 10000000+02 29110322+06 40000000+01 29174870+06 60000000+01 29576269+06 20000000+01 29956320+06 14000000+02			20000000+01			4000000	0+01	
40000000+01 16635600+06 20000000+01 16744400+06 20000000+01 17783300+06 12000000+02 25132477+06 60000000+01 25693036+06 10000000+02 26815938+06 20000000+02 28688961+06 12000000+02 28951759+06 10000000+02 29110322+06 40000000+01 29174870+06 60000000+01 29576269+06 20000000+01 29956320+06 14000000+02			11756400+06	400000	00+01	1185150	0+06	20000000+01
17783300+06 12000000+02 25132477+06 60000000+01 25693036+06 10000000+02 26815938+06 20000000+02 28688961+06 12000000+02 28951759+06 10000000+02 29110322+06 40000000+01 29174870+06 60000000+01 29576269+06 20000000+01 29956320+06 14000000+02				145921	00+06	600000	0+01	14600000+06
10000000+02 26815938+06 20000000+02 28688961+06 12000000+02 28951759+06 10000000+02 29110322+06 40000000+01 29174870+06 60000000+01 29576269+06 20000000+01 29956320+06 14000000+02			16635600+06	200000	00+01	1674440	0+06	20000000+01
28951759+06 10000000+02 29110322+06 40000000+01 29174870+06 60000000+01 29576269+06 20000000+01 29956320+06 14000000+02						6000000	0+01	25693036+06
60000000+01 29576269+06 20000000+01 29956320+06 14000000+02			26815938+06	200000	00+02			12000000+02
			-					29174870+06
30426035+06 10000000+02 30626507+06				200000	00+01	2995632	0+06	14000000+02
	30426035+06		10000000+02	306265	07+06			

APPENDIX A

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                                300000000+01
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                 00000000+00
                                40000000+01
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                 16980100+06
                                10+00000005
                                               18218200+06
                                                              40000000+01
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                                               40000000+01
                                                              27035600+06
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                                204000000+02
                                               31957400+06
                                                              10+0000005
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 10000000+02
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  63464940+06
                 21000000+02
                                66009200+06
                                               15000000+02
                                                              77233400+06
                                                      00000000+00
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                                       41911702+15
                                                              10000000+02
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                                57591000+06
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  10000000+02
                 69751720+06
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                                                              20000000+01
                                83254233+06
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  81242200+06
                 60000000+01
                                                              86510020+06
  14000000+02
                 87526457+06
                                10000000+02
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                        39939612+02
                                       55754097+15
                                                      0000000+00
AVIII
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  10000000+01
                 00000000+00
                                80000000+01
                                               20333500+07
                                                              40000000+01
  20521000+07
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APPENDIX B

COMPARISON OF EQUILIBRIUM THERMODYNAMIC PROPERTIES FOR ARGON

Tabulations of equilibrium, first-order thermodynamic properties for argon are presented in reference 9 for temperatures from 300 K to 35 000 K and pressures from 0.013 N/m² to 1.606 GN/m². These data were tabulated for various values of pressure, and the temperature was varied for each pressure. In order to obtain this format for the tabulations, the data of reference 10 were interpolated and tabulated in reference 9. The source of these thermodynamic properties for argon (that is, ref. 10) employed a six-species (e⁻, Ar, Ar⁺, Ar⁺+, Ar⁺++, and Ar⁴+) argon model, included second virial coefficient corrections for the interactions Ar-Ar, Ar-Ar⁺+, and Ar-Ar⁺+, and included the effect of coulombic forces on the external partition function. The corrections for interatomic force effects were applied as additive terms to a mixture of ideal gases and increased with increasing density; correction for coulombic forces represents the first term in an infinite power series in powers of ionic strength, and thus is a first-order correction. This latter correction was essentially negligible for T < 20 000 K. For values of temperature greater than 25 000 K, reference 10 cautions the user that the correction for coulombic forces represents only a first-order approximation.

To compare argon properties calculated by the method of references 6 and 7 with those tabulated in reference 9, the subroutine designated as "ROGO" in reference 2 was used. Required inputs to ROGO, which represents the method of references 6 and 7, are pressure and temperature; thereby comparisons for identical values of p and T are permitted. Comparisons of the nondimensional thermodynamic properties — density ρ/ρ_0 , entropy sW_0/R , enthalpy hW_0/RT , and molecular-weight ratio Z^* — between the two sources are presented in figure 6 for a range of temperature from 2000 K to 34 000 K and several values of pressure p/p_0 . In figure 6, the quantity

$$\xi_{\phi} \equiv \frac{\phi_{\text{ref. 9}} - \phi_{\text{ROGO}}}{\phi_{\text{ROGO}}} \times 100$$
(B1)

where ϕ may be any of the four thermodynamic quantities given previously, is plotted as a function of temperature for values of pressure p/p_0 ranging from 0.1 to 1000. For $p/p_0 \le 100$, thermodynamic quantities ρ/ρ_0 , sW_0/R , and Z^* agree to within 4 percent over the entire temperature range; for $p/p_0 \le 10$, values of hW_0/RT agree to within 3 percent over this temperature range, but for $p/p_0 = 100$ and 15 000 K < T < 21 000 K, the difference increases to 7 percent. For temperatures less than approximately 12 000 K and $p/p_0 \le 100$, the thermodynamic quantities from the two sources agree to within

APPENDIX B

approximately 1 percent. As expected, agreement between the two sources increases with decreasing pressure (diminishing interatomic force effects); however, for $p/p_0 > 100$, figure 6 demonstrates that the user of the method of references 6 and 7 should exercise discretion in determining thermodynamic properties of argon. This finding, naturally, applies to the present calculated thermodynamic properties in regions (2), (2s), and (2r).

To provide a rapid means for estimating interatomic force effects for argon, the results of reference 11 were used to obtain simple relations for the virial coefficients. The second, third, and fourth virial coefficient data of reference 11 were extrapolated to a temperature of 25 000 K, and curve fits were applied to these data for a temperature range from 2000 K to 25 000 K. Since the virial coefficients are functions only of the temperature, the following relations were obtained:

$$B(T) = 26.6714 - 1.18333 \times 10^{-3} T + 5.84511 \times 10^{-8} T^{2}$$

$$- 1.7535 \times 10^{-12} T^{3} + 2.40564 \times 10^{-17} T^{4}$$

$$C(T) = 7.12883 - 1.81714 \times 10^{-3} T + 2.66935 \times 10^{-7} T^{2}$$

$$- 1.98066 \times 10^{-11} T^{3} + 7.05012 \times 10^{-16} T^{4}$$

$$- 9.54818 \times 10^{-21} T^{5}$$

$$D(T) = 17.20921 - 7.2224 \times 10^{-3} T + 1.51448 \times 10^{-6} T^{2}$$

$$- 1.65403 \times 10^{-10} T^{3} + 9.60161 \times 10^{-15} T^{4}$$

$$- 2.80616 \times 10^{-19} T^{5} + 3.24449 \times 10^{-24} T^{6}$$

where the units for the quantities B(T), C(T), D(T), and T are given in the section "Symbols." The compressibility factor Z is determined from

$$Z = 1 + \rho \alpha B(T) + \rho^2 \alpha^2 C(T) + \rho^3 \alpha^3 D(T)$$
 (B3)

where α is defined as 10^{-3} Z*/W₀. Equations (B2) and (B3) provide a simple means of estimating interatomic force effects for argon, where interactions involving five or more argon atoms are neglected and the density and temperature are given. For convenience, the compressibility factor for argon is plotted in figure 7 as a function of pressure for various temperatures. From figure 7, the value of Z for argon corresponding to known values of p and T in regions (2), (2), or (2) may be determined. At the lowest temperature presented in figure 7 (that is, T = 2000 K), the argon is unionized. The present values of compressibility factor at this temperature are in excellent agreement

APPENDIX B

(within 0.5 percent) with those tabulated in reference 9 over the pressure range plotted. At temperatures and pressures for which ionization of argon has occurred, the results of figure 7 provide only rough estimates of the compressibility factor Z since interactions between ionized species are not considered. For such conditions, the reader is referred to reference 9 for more accurate values of Z.

Figure 8 demonstrates the variation in the species mole fractions for argon, as calculated by the method of references 6 and 7 for the 10 species argon model, with temperature for the same values of pressure shown in figure 6. Because of the high temperatures behind incident, standing, and reflected normal shocks for the present range of incident shock velocity, the temperature scale of figure 8 is extended (as compared with fig. 6) to 100 000 K. If mole fractions greater than 10^{-2} are assumed to be significant contributors, this figure shows that for p/p_0 equal to 0.1, third ionization (e-, Ar, Ar+, Ar++, and Ar+++) should be included at the higher temperatures of the comparison made previously between the present data and the data of reference 9. For the highest pressure, $p/p_0 = 1000$, an argon model including second ionization (e-, Ar, Ar+, and Ar++) would suffice. Since calculated temperatures in region (2) are as high as 70 000 K for the present range of quiescent test-gas pressure (5 N/m² < p_1 < 0.5 MN/m²) and incident shock velocity (2 < p_1 < 18 km/sec), and as high as 140 000 K behind a reflected shock (region (2r)), figure 8 demonstrates the reason for employing the detailed 10-species argon model in the present calculations.

The primary purpose of presenting the data of figure 8 is to demonstrate what argon species of the 10-species model are significant contributors over the temperature range expected behind an incident shock (region (2)) traveling at velocities up to 18 km/sec in argon at various values of p₁. As discussed in reference 13, it is an extremely difficult task to compare various compilations of thermodynamic properties and compositions because of a number of reasons. As a specific example of this problem, calculated compositions for argon at a pressure p/p_0 of unity and temperatures of 10 000 K, 20 000 K, and 30 000 K are compared in reference 13 for several sources. This comparison demonstrated relatively large differences in composition among the various species obtained from several sources. The uncertainty in calculated species mole fractions will, in almost all cases, exceed the uncertainty in corresponding calculated thermodynamic properties. Now, the relatively good agreement observed in the comparison between thermodynamic properties from the present source and that of reference 9 (fig. 6) for $p/p_0 < 100$ and T < 35 000 K tends to imply a corresponding reasonably good agreement between major species mole fractions. Because of the unknown uncertainties in thermodynamic properties for T > 35 000 K and the caution expressed in reference 13, the results of figure 8 should be viewed as an illustration of trends for $p/p_0 > 100$ or T > 35 000 K, and not viewed quantitatively.

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TABLE 1.- NONDIMENSIONAL THERMODYNAMIC PROPERTIES AND FLOW VELOCITY FOR INCIDENT (MOVING), STANDING, AND REFLECTED NORMAL SHOCKS IN PURE ARGON

[User cautioned about using table at pressures exceeding 10 MN/ m² and temperatures exceeding 35 000 K]

			•	·.			
P1 = 5	.00E+00 N/SQ-M	. US1= 2.00E+0	3 M/SEC	P1 = 9	5.00E+00 N/S0-M	. US1= 2.40E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
. р	4.7899E+01	8.4682E+01	2.5355E+02	р '	6.9107E+01	1.3717E+02	3.5136E+02
Ť	1.2892E+01	1.6279E+01	2.5736E+01		1.8163E+01	2.3239E+01	2.8867E+01
RHO	3.7155E+00	5.2020E+00	9.7743E+00	RHO		5.8845F+00	1.17856+01
H					3.8044E+03		
	1.2892F+01	1.6281E+01	2.8164E+01	H,	1.8185E+01	2.4068E+01	3.7803E+01
A	3.590 E+00	4.0312E+00	4.4632E+00	A .	4.2365E+00	4.4299E+00	4.5893E+00
S	1.0884E+00	1.08895+00	1.0995E+00	· \$	1.1057E+00	1.1065E+00	1.1186E+00
2.	1.0000E+00	1.0000E+00	1.0091E+00	Z	1.0001E+00	1.0031F+00	1.03286+00
GAME	9.9998E-01	9.9828E-01	7.6792E-01	GAME	9.8804E-01	8.4181E-01	7.0645E-01
U	4.5391E+00	3.2304E+00	2.7775E+00	u	5.4930E+00	3.5387E+00	2.6108E+00
SPEC !ES		- MOLE FRACTIONS		SPECIE		- MOLE FRACTIONS	
3. 20.23		- HOEL TRACTIONS		3, coir.		MOLE TRADITIONS	•
E-	6.5909E-08	9.24426-06	9.03885-03	E~	8.23275-05	3.0963E-03	3.1735E-02
A	1.0000E+00	9.99986-01	9.8192E-01	A	9.9984F-01	9.9381E-01	9.3653E-01
A+	6.5909E-08	9.2442E-06	9.0388E-03	A+	8.23275-05	3.0963E-03	3.1735E-02
A++	7.2487E-31	3.9729E-24	3.5002E-13	` A++	1.4884E-20	5.98416-15	3.2696E-11
A+++	1.1760E-69	2.6301E-54	1.0052E-32	A+++	1.5875E-48	1.0422E-36	2.2004E-28
A++++	. 0.	0.	5.2200E-64	A++++	0.	1.4652E-71	6.3276E-56
AV	0.	0.	0.	AV	0.	0.	0.
AVI	0.	0.,	2.7	. Avi	ŏ. ·	0.	0.
AVII	. 0.	0.	0. 0.	IIVA .	0.	0.	0.
AVIII	0.	0.	0.	AVIII	0.	0.	ŏ.
AVILL	0.	0.	0.	WALLE.	٠.	٠.	••
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		•	•				
P1 = 5	.00F+00 N/SQ-M	. US1= 2.20E+0	3 M/SEC	P1 = !	M-DS\N CO+300.5	 US1= 2.60E+0 	3 M/SEC
		•					
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	5.8004E+01	1.0592E+02	3.0070E+02	P	8.1334E+01	1.8549E+02	4.0985E+02
Ť	1.5416E+01	1.96678+01	2.7492E+31	Ť	2.0981E+01	2.6076E+01	3.0038E+01
RHO	3.7627E+00	5.3841E+00	1.0727E+01	RHO	3.8732E+00	7.0232E+00	1.3018E+01
н	1.5416E+01	1.9736E+01	3.2831E+01	H	2.1210E+01	2.9541E+01	4.3214E+01
A	3.9248E+00	4.3659E+00	4.5111E+00	, , , , , , , , , , , , , , , , , , ,	4.4034E+00	4.4356E+00	4.6812E+03
Š	1.0973E+00			Š	1.1135E+00	1.1152E+00	1.1290F+00
ž		1.0979E+00	1.1087F+00				
	1.0000E+00	1.Q003E+00	1.0197E+00	2	1.00095+00	1.0128E+00	1.0481E+00
GAME	9.9923E-01	9.6897E-01	7.2593E-01	GAME	9.2337E-01	7.4494E-01	6.9605E-01
U	5.0156E+00	3.4923E+00	2.7004E+00	U	5.9808E+00	3.2831E+00	2.5282E+00
SPECIES		, MOLE ED 467:00:0	•		_	WOLF FOLESTON	
SPECIES		- MOLE FRACTIONS		- SPECIES	,	- MOLE FRACTIONS	
E-	3.6818E-06	2.6499E-04	1.9300E-02	E-	8.6511E-04	1.2677E-02	4.5906E-02
A	9.9999E-01	9.9947E-01	9.6140E-01	A	9.9827E-01	9.7465E-01	9.0819E-01
A +	3.6818F-06	2.64996-04	1.9300E-02	A+	8.6511E-04	1.2677E-02	4.59065-02
A++	3.4492E-25	1.18156-18	5.2390E-12	A++	5-58385-17	8.9711E-13	1.3190E-10
A+++	4.0070E-59	9.46308-45		A+++	3.7268E-41	6.3229E-32	4.7541E-27
A++++	0.	2.2376E-86	8.4401E-60	A++++	1.2093E-79	1.2494E-62	1.6641E-53
AV	ŏ. ·	J.	0.44012 00	ÄV	0.	0.	6.4737E-89
AVI	0.	0.	0.	AVI	0.	0.	0.47516-87
AVII	0.						
		9.	0	IIVA	0.	0.	0.
AVIII	0.	0.	0.	IIIVA	0.	0.	0.
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	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK:			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
					ρ.			
	9.5677E+01	2.5019E+02	4.9531F+02			1.3094E+02	4.4964E+02	7.7481E+02
	2.3456E+01	2.8099E+01	3.1209E+01		Τ .	2.6717E+01	3.1184E+01	3.3534E+01
RHO.	4.0617E+00	8.6603E+00	1.4872E+01		RHO	4.8010E+00	1.3478E+01	2.0722E+31
H Spirit	2.4591E+01	3.5754E+01	4.96685+01		н '	3.2383E+01	5.0377E+01	6.5432E+01
	. 4.3838E+00 .	4.5290E+00	4.7926E+00		A	4.4268E+00	4.7926E+00	5.0569E+00
· S	1.1211E+00	1.12455+00	1.1405E+00		s ,	1.1369E+00	1.1461E+00	1.1660E+00#
Ž	1.0042F+00	1.0282E+00	1.0671E+00		z	1.0209E+00	1.0698E+00	1.1150E+00
GAME			6.8968E-01		GAME	7.1851E-01	6.8852E-01	6.8392E-01
	8.1582E-01 .	7.1002E-01			U	7.8603E+00		
U week	6.5451E+00	3.0577E+00	2.4745F+00		υ.	1.00035+00	2.7933E+00	2.3767F+00
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SPECIES		- MOLE PRACTIONS	7		SPECIES		- MULE PRACTIONS	
6-1 da .	4.2289E-03	2.7385E-02	6.2894E-02		E	2.04285-02	6.5238E-02	1.0314E-01
		9.4523E-01	8.74215-01		Δ .	9.59146-01	8.6952E-01	7.93735-01
	-9.9154E-01				Ã+	2.0428F-02	6.5238E-J2	1.0314E-01
	4.22895-03	2.7385E-02	6.2894E-02					
A++	1.3613E-14	1.5449E-11	4.6010E-10		A++	3.6137F-12	4.9174E-10	3.8346E-09
A+++	5.2526E-36	3.1777E-29	7.9842E-26		A+++	-9.73286-31	8.7052E-26	1.0472E-23
A++++	2.7065E-70	3.6355E-58	3.3447E-51	•	A++++	1.22796-60	3.7151E-51	3.3563E-47
AV	0.	. 0.	3.3247F-85		AV " '	0.	3.8590E-85	8.1895E+79
AVI	0.	ŏ.	0.		AVÍ	0.	0.	0.
AVII	0.	ŏ.	0.		IIVA	· 0.	ŏ.	0.
AVIII	0.	0.	0.	•	IIIVA	0.	~ . 6•	0.
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D1	005.00 11.00 1	. US1= 3.00E+0			01 - 5	-DOE+00 N/SO-M	US1= 3.40E+0	3 H/CEC 1.
F1 - 5.	005+00 N/30-H	• USI= 3.00E+0	3 H/3EC		F1 - 7	-001 +00 N/30-H	. USI= 3.40E+0	3 H/3EC
								•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
					p	1.5095E+02		
	.1.1247E+02	3.3876E+02	6.1842E+02				5.8660E+02	9.6399E+02
T /	2.5322E+01.	2.9763E+01	3.2392E+01		τ	2.7850E+01	3.2467E+01	3.4631E+01
	4.3924E+00	1.0864F+01	1.7520E+01		RHO -	5.2493E+00	1.6509E+01	2.4362E+31
H	2.8345E+01	4.2796E+01	5.7176E+01		H .	3.6687E+01	5.8543E+01	7.4348E+01
A	4.3813E+00	4.6564E+00	.4.9207E+00		Α	4.4941E+00	4.9335E+00	5.1984E+00
S	1.1288E+30	- 1.1348E+00	1.1528E+00	•	· S .	~1.1457E+00	1.1585E+00	1.1803E+00
Z.	1.0112E+00	1.0476E+00	1.08975+00		Ž	1.0325E+00	1.0944E+00	1.1426E+00
GAME	7.4965F-31				GAME.	7.0237E-01		
		6.95365-01.	6.8595E-01				6.8503E-01	6.8293E-01
U · ·	7.1925E+00	2.8948E+00	2.4165E+00		υ	8.5368E+00	2.7038E+00	2.3490F+00
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F= and co	1.1108E-02	4.5471E-02	8.2336E-02		. F	3.15075-02	8.6235E-02	1.2481E-01
Arrivers in					E-	9.3639E-01		
M .	9.7778E-01		8.3533E-01	,			8.2753E-01	7.5038E-01
	1.1108E-02	4.5471E-02	8.2336E-02		A+	3.15076-02	8.6235E-02'	1.2481E-01
A++ '	. 3.97835-13	1.1223E-10	1.4224E-09		A++ "	1.7831E-11	1.6292E-09	9.2332E-09
A +.++	5.5024E-33	3.0425E-27	1.0474F-24		A+++	3.26895-29	1.3786E-24	8.1984E-23
A++++	9 5.8479E-64	7.2783E-54	3.93336-49		A++++	. 7.0946E-58	7.0077E-49	1.76545-45
AV	10.	1.7076E-89	2.4460E-82		AV	0.	1.7922E-81	5.8403E-76
AVI	: 0.				ÄVI	ő.	0.	
		0.	0.				-	0.
AVII	0.	0.	۰,0		AVII	0.	0.	0.
AVIII .	. 0.	0.	0.		AVIII	э.	0.	0.
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	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
р.	1.7233F+02		1.1864E+03		P	2.1899E+02	1.1560E+03	1.7323E+03
7		7.4888E+02			Ť	3.0408E+01	3.5790E+01	3.7687E+01
	2.8806E+01	3.3644E+01	3.5686E+01					
RHO	5.7214E+00	1.9858E+01	2.8360F+01		RHO	6.6963E+00	2.7386E+01	3.7162E+01
H .	4.1244E+01	6.7193E+01	.8.3850F+01,		н .	5.1102E+01	8.5959E+01	1.0441E+02
A	/ 4.5695E+00. s	5.0761F+00	5.3438E+00		A	4.7296E+00	5.3666E+00	5.6436E+00 "
\$	1.1550E+00	1.1719E+00	1.1955E+00		S	1.1752E+00	1.2018E+00	1.2286E+00
2 -	1.0456E+00	1.1209E+00	1.1723F+00		2	1.0755E+00	1.1794E+00	1.2369E+00 ·
GAME	6.9324E-01	6.8326E-01	6.8263E-01		GAME	6.8402E-01	6.8231E-01	6.8326E-01
· U	9.2123E+00	2.6492E+00	2.3311E+00		U	1.0549E+01	2.5903E+00	2.3051E+00
•	7.21236+00	2.04926+00	2.33110.400		U	1103496401	2.57052.700	2130312,100
*****		- 4015 504671006			SPECIES		- MOLE FRACTIONS	
SPECIES	,	- MOLE FRACTIONS			. SPECIES	3	- MULE FRACTIONS	;
E-	4.3635E-02	1.0786E-01	1.4696E-01	•	E~ ,	7.0173E-02	1.5210E-01	1.9153E-01 "
4	9.1273E-01	7.8428E-01	7.0608E-01		A	8.5965F-01	6.9581E-01	6.1693E-01
A+	4.3635E-02	1.0786E-01	1.4696E-01		A+	7.0173F-02	1.5210E-01	1.9153E-01
A++	6.1304E-11	4.4438F-09	2.0257E-08		A++	3.9383F-10	2.2874E-08	7.89055-08
A+++	5.4241E-28		5.1758E-22		A+++	3.5099E-26	6.6160E-22	1.28326-20
		1.4241E-23						2.5361E-41
A++++	1.9470E-55	6.0137E-47	5.8844E-44		A++++	4.6261E-52	8.7183E-44	
AV .	0.	2.4109E-78	1.6876E-73		AV	1.0900E-86	2.6055E-73	1.8857E-69
AVI	0.	0.	0.		I VA	0.	0.	0.
TIVA	0.	٥.	0.		AVII	0.	0.	0.
AVIII	0.	o	0.		AVIII	0.	0.	0.
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	· · · · · · · · · · · · · · · · · · ·							
01 - 6	205400 N/CO-N					E 005+00 N/CO-N	UC1- 4 20540	3 H46EC .
P1 = 3	6.00E+00 N/SQ-M	. US I= 3.80E+0	3 M/SEC		PI = 1	5.00F+00 N/SQ-M	. US1= 4.20E+0	13 M/3EC
	MONTHS SHOCK	STANDING SUSSE	ACC. 50750 A	**		HELTHA 511051		DC F1 FC7FD CHOCK
_	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	1.9502E+02	9.3946E+02	1.4427E+03		P	2077376706	, 1040016403	2.00376.03
T	2.9647E+01	3.4743E+01	3.6704E+01		T	3.1110E+01.	3.6805E+01	3.8666E+D1
RHO .	. 6.2058E+00	2.3532E+01	3.2650E+01		RHO	7.1936E+00	3.1581E+01	4.1951E+01
н	4.6049E+01	7.6355E+01	9.3905E+01		H	5.6414E+01	9.6165E+01	1.1564E+02
Δ	4.6486E+00	5.2199E+00	5.4927E+00		A	4.8121E+00	5.5167E+00	5.8009E+00
₹	1.1648E+00	1.1862E+00	1.2117E+00 -		ŝ	1.1862E+00	1.2181E+00	1.2467E+00
,							1.21158+00	1.2724E+00
2	1.0600E+00	1.1491E+00	1.2038E+00			1.0920E+00		
GAME	6-8764E-01	6.8250E-01	6.8278F-01		GAME	6.8162E-01	6.8256E-01	6.8399E-01
U	9.8834E+00	2.6010E+00	2.3214E+00		Ü	1.1217E+01	2.5644E+00	2.3113E+00
								•
SPECIES		- MOLE FRACTIONS		•	. SPECIE	s	- MOLE FRACTIONS	
E- ' "	5.6587E-02	1.29746-01	1.6932E-01	-	E-	8.4284E-02	1.7455E-01	2.1406E-01
Δ .					A .	8.3143E-01	6.5090E-01	5.71895-01
	8.8683E-01	7.4051E-01	6.6135E-01	·				
A+	5.6587E-02	1.2974E-01	1.6932E-01		A+	8-4284E-02	1.7455E-01	2.1406E-01
A++	1.6775E-1C	1.0557E-08	4.1269E-08		. A++	8.2924E-10	4.6169E-08	1.4562E-07
A+++	5.1579E-27	1.0770E-22	2.7538E-21		A+++	1.8751E-25	3.5110E-21	5.5703E-20.
A++++ .	1.27938-53	2.7998E-45	1.3401E-42		A++++	1.0565E-50	2.2092E-42	4.4735E-40
- AV	3.1830E-89	1.1399E-75	7.7850E-71		AV	1.6930E-84	5.8502E-71	3.1879E-67
AVI	0.	0.	0.		ÄVI	0.	0.	0.
ÄVII	0.				ÎIVA	0.	0.	0.
		0.	0.					
AVIII	0.	0.	0.		IIIVA	0.	0.	0.

$p_3 = 5 \, \text{N/m}^2$

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	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
	2.7081E+02	1.6886E+03	2.4282E+03		,	3.2738E+02	2.3435E+03	3.27362+03
Ť.	3.1763E+01	3.7778E+01	3.9618E+01					
			4.6816E+01		<u></u>	3.2968E+31	3.9653E+01	4.1503E+01
RHO	7.6840E+00	3.5904E+01			RHO	8.6534E+00	4.4896E+01	5.6834E+01
`H	6.1961E+01	1.0677E+02	1.2731F+02		4	7.3808E+01	1.2940E+02	1.5225E+02
A	4.8954E+00	5.6680E+00	5.9603E+00		١.	5.0653E+00	5.9789E+00	6.2920F+00
S	1.1976E+00	1.2352E+00	1.2654E+00	1	5	1.2222E+00	1.2717E+30	1.3052E+30
Ζ,	1.1096E+00	1.2449E+00	1.30925+00		!	1.1475E+00	1.3164E+00	1.3878E+00 ""
GAME		6.8310E-01	6.8492E-01	(SAME	6.7819E-01	6.8481E-01	6.8733E-01
U	1.1870E+01	2.5431E+00	2.3228E+00		j	1.3162E+01	2.5407E+00	2.35925+00
			•				• •	
·								
SPECIE	\$	- MOLE FRACTIONS		•	SPECIES		- MOLE FRACTIONS	
E-	9.8759E-02	1.9672E-01	2.3616E-01	F-	-	1.2858E-01	2.4036E-01	2.7945E-01
À	8.0248E-01	6.0656E-01	5.2767E-01		-	7.4285E-01	5.1928E-31	4.4109E-01
Ã+	9.8759E-02	1.9672E-01	2.36165-01	Ã		1.2858E-01	2.4036E-01	2.7945E-01
A++	1.6025E-09	8.7226E-08	2.5702E-07		++	5.01545-09	2.7327E-07	7.3665E-07
A+++	8.1553E-25	1.5810E-20	2.1710E-19		++	1.0974E-23	2.4289E-19	2.7212E-18
A++++	1.4428E-49	3.73438-41	6.0702E-39	-	+++	1.6984E-47	7.1267E-39	7.5370E-37
AV .	6.7412E-83	4.4661E-69	2.2293E-65	A.		2.17575-79	2.6731E-65	5.4451E-62
			0.					
AVI	0.	0.			/ [0.	0.	0.
AVII	0.	0.	9 . .		/I I	0.	0.	0.
IIIVA	0.	0.	0.	A\	111	0.	0.	0.
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							· .	
P1 =	5.00E+00 N/SO-M	 US1= 4.60E+0 	3 M/SEC		P1 = 5	.00E+00 N/SQ-M	 US1= 5.00E+0 	3 M/SEC
				,		• .		* **
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	•		MOVING SHCCK	STANDING SHOCK	REFLECTED SHOCK
P	2.9848E+02	1.9997E+03	2.8312F+03	p)	3.57525+02	2.7207E+03	3.7565E+03
T	3.2380E+01	3.8724E+01	4.0562F+01		•	3.3533E+01	4.0571E+01	4.2449E+01
RHO	8.17145+30	4.0348E+01	5.17926+01		tHO.	9-1288E+00	4.9510E+01	6.1902E+01
н .	6.7759E+01	1-1784 -02	1.3951E+02		1	8.0108E+31	1.4144E+02	1.6554E+32
A	4.9798E+30	5.8218E+00	6.12395+00		•	5.1520E+00	6.1395E+00	6.4653E+00
Š.	1.2097E+00	1.2531E+G0	1.28506+00			1.2352E+00	1.2910E+00	1.3261E+00
	1.1281E+00	1.2799E+00	1.34776+30	-				
Z				Į.		1.1679E+00	1.3544E+00	1.4296E+00
GAME	6.7891E-01	6.8386E-01	6.8604E-01		AME	6.7775E-01	6.8593E-01	6.8881E-01
U	- 1.2518E+01	2.5386E+00	2.33885+00	· · · · · ·	, .	1.38026+01	2.5489E+00	2.3838E+00 .
			• •					
SPECIF		- MOLE FRACTIONS					*	e e e e
SPECIF		- HOLE PRACTIONS		S	PECIES		- MOLE FRACTIONS	
E- '	1.1355E-01	2.1868E-01	2.57996-31	E-		1.43788-01	2.6169E-01	3.0050E-01
A	7.7291E-01	5 • 6 26 5E-01	4.8403E-01	Α.		7.1244E-01	4.7662E-01	3.9900E-01
A+	1.1355E-01	2.1868E-01	2.57998-01	A+		1.4378E-01	2.6169E-01	3.0050E-01
A++	2.9042E-09	1.5728E-07	4.4025F-07.	Ā.		8.31J3F-J9	4.6104E-07	1.2112E-06
A+++	3.0480E-24	6.4781E-20	7.8933E-19		**	3.6081F-23	8.5062E-19	9-0226E-18
A++++	1.0005E-48	5.7262E-40	7.1363F-38		+++	2.0512E-46	7.7110E-38	7.3652E-36
AV	1.476CE-80	4.5683E-67	1.2092E-63	ÄV		1.1722E-77	1.21396-63	2.1486E-60
AVI	9.	0.	0.					
	0.	0.	0.	Αν.		0.	0.	0.
IIVA			•		11	ე.	Q.	. 0.
IIIVA								
	0.	. 0.	0.	AV	111	0.	0.	0.

p, = 5 N/m²

	3100E400 H334-H					,	•	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
· 0	3.8907E+02	3.1357E+03	4.2857E+03		р:	4.5514E+02	4.0508E+03	5.4494E+03
Ŧ	3.4078E+01	4.1491E+01	4.3412E+01		T	3.5119E+01	4.3318E+01	4.5384E+01
RHO		5.4208E+01		1,1				
H	9.6003E+00		6.7013E+01		RHO	1.0499E+01	6.3317E+01	7.6779E+01
A .	3.8.6668E+01	1.5404E+02	1.7946E+02		H	1.0052E+02	1.8039E+02	2.0866E+02
A	5.2401E+00	6.3050E+00	6.6453E+00		A	5.4199E+00	6.6456E+00	7.0218E+00
\$	1.2487E+00	1.3111E+00	1.3478F+00		S	1.2771E+00	1.3526E+00	1.3927E+00
Z	1.1892E+00	1.3942E+00	1.4732E+00		Z	1.2344E+00	1.4769E+00	1.5639E+00
GAME	6.7755E-01	6.8723E-01	6.9051E-01	٠,	GAME	6.7759E-01	6.9032E-01	6.9470E-01
U	1.4446E+01	2.5625E+00	2.4127E+00		Ü	1.5698E+01	2-6072E+00	2.4848E+00-
	And the state of the	in the second	a track				•	
SPECIE	5	- MOLE FRACTIONS	,		SPECIES	·	- MOLE FRACTIONS	
_			* **		_	·		
E-	1.5912E-01	2.8272E-01	3.2119E-01	• •	E	1.8991E-01	3.2291E-01	3.6056E-01
A	6.8175E-01	4.3456E-01	3.5762E-01		Α .	6.2017E-01	3.5419E-01	2.7889E-01
A+	.1.5912E-01	2.8272E-01	3.2119E-01		Α+ .	1.8991E-01	3.2290E-01	3.6055E-01
A++	-1.3267E-08	7.6267E-07	1.9734E-06	Ť.	A++ .	3.1222E-08	1.9663E-06	5.1057E-06
A+++	1.03246-22	2.8638E-18	2.9359E~17		A+++	7.6572F-22	2.8160E-17	2.9411E-16
A++++	1.2900E-45	7.8990E-37	6.9274E-35		A++++	6.3912E-44	6.0781E-35	5.4431E-33
AV	1.2963E-76	5.4325E-62	7.9444E-59		AV	1.1363E-73	5.9418E-59	8.8045E-56
AVI	0.	0.	0.	•	AVI	0.	0.	4.6193E-85
AVII -	0.	o.	0.		IIVA	ŏ.	ŏ.	0.
IIIVA	0.	ō.	`		AVIII	0.	0.	ŏ.
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	18		*					* *
			,					
01 -	e 005.00 M/CO-M	US1- 5 405-0	3 44550		nı - s			
P1 = 1	5.00E+00 N/SQ-M	• US1= 5.40E+0	3 M/SEC		P1 = 5	.00E+00 N/SQ-M	. US1= 5.80E+0	3 M/SEC
P1 = 1	5.00E+00 N/SQ-M	• US1= 5.40E+0	3 M/SEC		P1 = 5	.00E+00 N/SQ-M	. US1= 5.80E+0	3 M/SEC
P1 = 9					P1 = 5			
P1 = 1	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		•	MCVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P1 = 1	MOVING SHOCK 4.2126E+02	STANDING SHOCK 3.5707E+03	REFLECTED SHOCK 4.8397E+03		Р.	MCVING SHOCK	STANDING SHOCK	REFLECTED SHOCK 6.1077E+03
P	MOVING SHOCK 4.2126E+02 3.4603E+01	STANDING SHOCK 3.5707E+03 4.2392E+01	REFLECTED SHOCK 4.8397E+03 4.4374E+01		Р. Т	MCVING SHOCK 4.9042E+02 3.5624E+01	STANDING SHOCK 0+4.5695E+03 0+4.4265E+01	REFLECTED SHOCK 6.1077E+03 4.6446E+01
P T RHO	MOVING SHOCK 4-2126E+02 3-4603E+01 1-0050E+01	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01	^	P. T RHO	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01	STANDING SHOCK 14.5695E+03 14.34.4265E+01 6.7882E+01	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01
P T RHO H	MOVING SHOCK 4-2126E+02 3-4603E+01 1-0050E+01 9-3456E+01	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02		р. Т RHO H	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02	STANDING SHOCK 4.5695E+03 4.4265E+01 6.7882E+01 1.9445E+02	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02
P T RHO H	MOVING SHOCK 4-2126E+02 3-4603E+01 1-0050E+01 9-3456E+01 5-3291E+00	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00		р. Т ЯНО Н А	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02 5.5123E+00	STANDING SHOCK 0+4-5695E+03 0+3-4-4265E+01 1-4-36-7882E+02 1-8-8262E+00	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00
P T RHO H A S	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00		P. T RHO . H A S	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2920E+00	STANDING SHOCK 4-5695E+03 4-36-7882E+01 1-9445E+02 6-8262E+00 1-3744E+00	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00
P T RHO H A S	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00		P. T. RHO H A S.	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0740E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00	STANDING SHOCK 4-5695E+03 4-36-7882E+01 1-9445E+02 6-8262E+00 1-3744E+00 1-3747E+00	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.2126±+02 3.4603±+01 1.0050±+01 9.3456±+01 5.3291±+00 1.2627±+00 1.2114±+00 6.7750±-01	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+00 1.3698E+00 1.5175E+00 6.9243E+01		P. T RHO M A S Z GAME	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00 6.7780E-01	STANDING SHOCK 4-5695E+03 4-5695E+01 1-36-7882E+01 1-9445E+02 6-8262E+00 1-3744E+00 1-5207E+00 6-922ZE-01	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01
P T RHO H A S	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00		P. T. RHO H A S.	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0740E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00	STANDING SHOCK 4-5695E+03 4-36-7882E+01 1-9445E+02 6-8262E+00 1-3744E+00 1-3747E+00	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.2126±+02 3.4603±+01 1.0050±+01 9.3456±+01 5.3291±+00 1.2627±+00 1.2114±+00 6.7750±-01	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+00 1.3698E+00 1.5175E+00 6.9243E+01		P. T RHO M A S Z GAME	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00 6.7780E-01	STANDING SHOCK 4-5695E+03 4-5695E+01 1-36-7882E+01 1-9445E+02 6-8262E+00 1-3744E+00 1-5207E+00 6-922ZE-01	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01
P T RHO H A S Z GAME U	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01 2.5828E+00	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00		P. T. RHO. H. A. S. Z. GAME. U	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00 6.7780E-01 1.6334E+01	STANDING SHOCK 4-5695E+03 4-5695E+01 1-945E+02 6-8262E+00 1-3744E+00 1-5207E+00 6-9222E-01 2-6367E+00	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00		P. T RHO M A S Z GAME	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00 6.7780E-01 1.6334E+01	STANDING SHOCK 4-5695E+03 4-5695E+01 1-36-7882E+01 1-9445E+02 6-8262E+00 1-3744E+00 1-5207E+00 6-922ZE-01	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00
P T RHU H A S Z GAME U	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01 2.5828E+00	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00		P. T RHO H A S C GAME U SPECIES	MCVING SHOCK 4.9042E+02 3.562E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.250E+00 6.7780E-01 1.6334E+01	STANDING SHOCK 4-5695E+03 4-5695E+03 4-36-7882E+01 1-9445E+02 6-8262E+00 1-5744E+00 1-5207E+00 6-9222E-01 2-6367E+00	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01 2.5828E+00 - MOLE FRACTIONS 3.0292E-01	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00		P. T. RHO H A S Z GAME U SPECIES	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00 6.7780E-01 1.6334E+01	STANDING SHOCK 4-5695E+03 4-5695E+01 1-945E+02 6-8262E+00 1-3744E+00 1-5207E+00 6-922ZE-01 2-6367E+00	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01 S	STANDING SHOCK 3.57.07E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.4346E+00 6.8866E-01 2.5828E+00 - MOLE FRACTICNS 3.0292E-01 3.9416E-01	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.9283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00		P T RHO H A S Z GAME U SPECIES	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0748E+02 5.5123E+00 1.2584E+00 6.7780E-01 1.6334E+01 2.0533E-01 5.8933E-01	STANDING SHOCK 4-5-695E+03 6-3-4-4265E+01 1-9445E+02 6-8262E+00 1-3744E+00 6-9222E-01 2-6367E+00 - MOLE FRACTIONS 3-4243E-01 3-1515E-01	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00
PTRHOHASS GAME USPECIES	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2027E+00 1.2114E+00 6.7750E-01 1.5064E+01	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E+01 2.5828E+00 - MOLE FRACTICNS 3.0292E-01 3.9416E-01 3.0292E-01 3.0292E-01	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00 3.4100E-01 3.4100E-01		P. T RHO H A S CAME U SPECIES E- A+	MCVING SHOCK 4.9042E+02 3.562E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00 6.7780E-01 1.6334E+01 2.0533E-01 5.8933E-01 2.0533E-01	STANDING SHOCK 4-5695E+03 4-5695E+03 1-34-265E+01 1-94-5E+02 6-8262E+00 1-374-4E+00 1-5207E+00 6-9222E+01 2-6367E+00 - MOLE FRACTIONS 3-4243E+01 3-1515E+01 3-4242E+01	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00 3.7961E-01 2.4079E-01 3.7959E-01
PT RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.212E+00 1.2114E+00 6.7750E-01 1.5064E+01 S	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01 2.5828E+00 - MOLE FRACTIONS 3.0292E-01 3.9416E-01 3.0292E-01 1.2270E-06	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00 3.4100E-01 3.4100E-01 3.1632E-06		P. T. RHO H. A. S. Z. GAME U. SPECIES E- A. A+ A++	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0740E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00 6.7780E-01 1.6334E+01 2.0533E-01 2.0533E-01 2.0533E-01 4.6301E-08	STANDING SHOCK 4-5695E+03 4-5695E+01 1-94-5265E+01 1-94-5E+02 6-8262E+00 1-374-4E+00 1-5207E+00 6-9222E-01 2-6367E+00 - MOLE FRACTIONS 3-4243E-01 3-1515E-01 3-424-2E-01 3-1340E-06	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00 3.7961E-01 2.4079E-01 3.7959E-01 8.3085E-06
P T RHO H A S Z GAME U SPECIE: E - A A + + A + + +	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01 S	STANDING SHOCK 3.57.07E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.4346E+00 6.8866E-01 2.5828E+00 - MOLE FRACTICNS 3.0292E-01 3.9416E-01 3.0292E-01 1.2270E-06 8.9834E-18	REFLECTED SHOCK 4.839 7E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00 3.4100E-01 3.1800E-01 3.11632E-06 9.2030E-17		P. T. RHO H. A. S. Z. GAME U. SPECIES E. A.	MCVING SHOCK 4-9042E+02 3-5624E+01 1-0940E+01 1-0784E+02 5-5123E+00 1-2584E+00 6-7780E-01 1-6334E+01 2-0533E-01 2-0533E-01 4-6301E-08 1-8698E-21	STANDING SHOCK 4-4-5695E+03 4-3-695E+03 1-3-6-7882E+01 1-94-5E+02 6-8262E+00 1-574-4E+00 1-5207E+00 6-9222E-01 2-6367E+00 - MOLE FRACTIONS 3-4243E-01 3-1515E-01 3-140E-06 8-7023E-17	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00 3.7961E-01 2.4079E-01 3.7959E-01 8.3085E-06 9.5966E-16
P T RHO H A S Z GAME U SPECIE!	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01 S 1.7448E-01 6.5103E-01 1.7448E-01 2.0547E-08 2.7703E-22 5.6903E-45	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01 2.5828E+00 - MOLE FRACTICNS 3.0292E-01 3.9416E-01 3.0292E-01 1.2270E-06 8.9834E-18 6.8412E-36	REFLECTED SHOCK 4.839 7E+03 4.4374E+01 7.1874E+01 1.936 7E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00 3.4100E-01 3.4800E-01 3.4100E-01 3.4100E-01 3.4100E-01 6.9232E-06 9.2030E-17 6.0443E-34		P. T RHO H A S Z GAME U SPECIES E-A A+A++A+++	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00 6.7780E-01 1.6334E+01 2.0533E-01 2.0533E-01 4.6301E-08 1.8698E-21 3.0313E-43	STANDING SHOCK 4-5695E+03 4-5695E+03 6-7882E+01 1-9445E+02 6-8262E+00 1-3744E+00 1-5207E+00 6-922ZE+01 2-6367E+00 - MOLE FRACTIONS 3-4243E-01 3-1515E-01 3-1340E-06 8-7023E-17 5-1474E-34	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00 3.7961E-01 2.4079E-01 3.7959E-01 8.3085E-06 9.5966E-16 5.0484E-32
P T RHO H A S Z GAME U SPECIE: E-A A+A++A+++A+++A	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01 S	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01 2.5828E+00 - MOLE FRACTIONS 3.0292E-01 3.9416E-01 3.0292E-01 1.2270E-06 8.9834E-18 6.8412E-36 1.6766E-60	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00 3.4100E-01 3.4100E-01 3.4100E-01 3.1632E-06 9.2030E-17 6.0443E-34 2.5895E-57		P. T. RHO H. A. S. Z. GAME U. SPECIES E.— A.	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00 6.7780E-01 1.6334E+01 2.0533E-01 2.0533E-01 2.0533E-01 4.6301E-08 1.8698E-21 3.0313E-43 8.2245E-73	STANDING SHOCK 4-5695E+03 4-5695E+03 6-7882E+01 1-9445E+02 6-8262E+00 1-3744E+00 1-5207E+00 6-922E-01 2-6367E+00 - MOLE FRACTIONS 3-4243E-01 3-1515E-01 3-4242E-01 3-1340E-06 8-7023E-17 5-1474E-34 1-8392E-57	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.4162E+00 2.5282E+00 3.7961E-01 2.5282E+00 3.7959E-01 3.7959E-01 8.3085E-06 9.5966E-16 5.0484E-32 3.0851E-54
P T RHO H A S Z GAME U SPECIE!	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01 S 1.7448E-01 6.5103E-01 1.7448E-01 2.0547E-08 2.7703E-22 5.6903E-45	STANDING SHOCK 3.57.07E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01 2.5828E+00 - MOLE FRACTICNS 3.0292E-01 3.9416E-01 3.0292E-01 1.2270E-06 8.9834E-18 6.8412E-36 1.6766E-60 0.	REFLECTED SHOCK 4.839 7E+03 4.4374E+01 7.1874E+01 1.936 7E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00 3.4100E-01 3.4800E-01 3.4100E-01 3.4100E-01 3.4100E-01 6.9232E-06 9.2030E-17 6.0443E-34		P. T RHO H A S Z GAME U SPECIES E- A + A + + + A + + + + A VI	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2584E+00 6.7780E-01 1.6334E+01 2.0533E-01 2.0533E-01 2.0533E-01 4.63.01E-08 1.8698E-21 3.0313E-43 8.2245E-73 0.	STANDING SHOCK 4-5695E+03 4-5695E+03 6-7882E+01 1-9445E+02 6-8262E+00 1-3744E+00 1-5207E+00 6-922ZE+01 2-6367E+00 - MOLE FRACTIONS 3-4243E-01 3-1515E-01 3-1340E-06 8-7023E-17 5-1474E-34	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00 3.7961E-01 2.4079E-01 3.7959E-01 8.3085E-06 9.5966E-16 5.0484E-32
P T RHO H A S Z GAME U SPECIE: E-A A+A++A+++A+++A	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01 S 1.7448E-01 6.5103E-01 1.7448E-01 2.0547E-08 2.7703E-22 5.6903E-45 1.047E-74	STANDING SHOCK 3.5707E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01 2.5828E+00 - MOLE FRACTIONS 3.0292E-01 3.9416E-01 3.0292E-01 1.2270E-06 8.9834E-18 6.8412E-36 1.6766E-60	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00 3.4100E-01 3.4100E-01 3.4100E-01 3.1632E-06 9.2030E-17 6.0443E-34 2.5895E-57		P. T. RHO H. A. S. Z. GAME U. SPECIES E.— A.	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0784E+02 5.5123E+00 1.2920E+00 1.2584E+00 6.7780E-01 1.6334E+01 2.0533E-01 2.0533E-01 2.0533E-01 4.6301E-08 1.8698E-21 3.0313E-43 8.2245E-73	STANDING SHOCK 4-5695E+03 4-5695E+03 6-7882E+01 1-9445E+02 6-8262E+00 1-3744E+00 1-5207E+00 6-922E-01 2-6367E+00 - MOLE FRACTIONS 3-4243E-01 3-1515E-01 3-4242E-01 3-1340E-06 8-7023E-17 5-1474E-34 1-8392E-57	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.4162E+00 2.5282E+00 3.7961E-01 2.5282E+00 3.7959E-01 3.7959E-01 8.3085E-06 9.5966E-16 5.0484E-32 3.0851E-54
P T RHO H A S Z GAME U SPECIE: E A A + A + A + + + A + + + + A V I	MOVING SHOCK 4.2126E+02 3.4603E+01 1.0050E+01 9.3456E+01 5.3291E+00 1.2627E+00 1.2114E+00 6.7750E-01 1.5064E+01 S	STANDING SHOCK 3.57.07E+03 4.2392E+01 5.8715E+01 1.6688E+02 6.4715E+00 1.3315E+00 1.4346E+00 6.8866E-01 2.5828E+00 - MOLE FRACTICNS 3.0292E-01 3.9416E-01 3.0292E-01 1.2270E-06 8.9834E-18 6.8412E-36 1.6766E-60 0.	REFLECTED SHOCK 4.8397E+03 4.4374E+01 7.1874E+01 1.9367E+02 6.8283E+00 1.3698E+00 1.5175E+00 6.9243E-01 2.4466E+00 3.4100E-01 3.1800E-01 3.1632E-06 9.2030E-17 6.0443E-34 2.5895E-57 2.6729E-87		P. T RHO H A S Z GAME U SPECIES E- A + A + + + A + + + + A VI	MCVING SHOCK 4.9042E+02 3.5624E+01 1.0940E+01 1.0784E+02 5.5123E+00 1.2584E+00 6.7780E-01 1.6334E+01 2.0533E-01 2.0533E-01 2.0533E-01 4.63.01E-08 1.8698E-21 3.0313E-43 8.2245E-73 0.	STANDING SHOCK 4-5-695E+03 4-5-695E+03 4-3-6-7882E+01 1-94-45E+02 6-8262E+00 1-5207E+00 6-9222E-01 2-6367E+00 - MOLE FRACTIONS 3-4243E-01 3-1515E-01 3-4242E-01 3-1340E-06 8-7023E-17 5-1474E-34 1-8392E-57 1-4190E-87	REFLECTED SHOCK 6.1077E+03 4.6446E+01 8.1582E+01 2.2430E+02 7.2258E+00 1.4162E+00 1.6119E+00 6.9741E-01 2.5282E+00 3.7961E-01 3.7959E-01 8.3085E-06 9.5966E-16 5.0484E-32 3.0851E-54 8.1696E-83

P1 *	2.00E+00 N/20-M	. US1= 6.00E+0	3 M/SEC	P1 = 5.	00E+00 N/SQ-M	• US1= 6-40E+0	3 M/SEC
			•				
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	5.2671E+02	5.1166E+03	6.8029E+03	P	6.0296E+02	6.3092E+03	8.3313E+03
T	3.6119E+01	4.5230E+01	4.7562E+01	. T	3.7092E+01	4.7290E+01	5.0139E+01
RHO	1.1364E+01	7.2257E+01	8.6120E+01	RHO	1.2174E+01	8.0443E+01	9-4262E+01
H	1.1540F+02	2.0890E+02	2.4043E+02	H	1.3129E+02	2.3925E+02	2.7473E+02
A .	5.6062E+00	7.0123E+00	7.4398E+00	<u>''</u>	5.7991E+00		7.9249E+00
ŝ.	1.30736+00	1.3966E+00	1.44 OOE +00	. A		1.4423F+00	
			1.6608F+00	3	1.3391F+00		1.4895E+00
Z	1.28326+00	1.5656E+00		2	1.3353E+00	1.6585E+00	. 1.7628E+00
GAME	6.7812E-01	6.9441E-01	7.0070E-01	GAME	6.7900E-01	7.0010E-01	7.1058E-01
U	1.6960E+31	2.6719E+00	2.5777E+00 :	U ,	1.8206E+01	2.7598E+00	2.7141E+00
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SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	Z.2069E-01	3.6125E-01	3.9789E-01	E-	· 2.5110E-01	3.9704E-01	4.3272E-01
Ā	5.5863E-01	2.7750E-01	2.0423E-01	Ã	4.9780E-01	2.0593E-01	1.34616-01
Ā÷	2.2069E-01	3.6124E-01	3.9787E-01	Ã÷	2.5110E-01	3.9702E-01	4.3263E-01
A++	6.75098-08		1.3653E-05			1.2736E-05	
				A++	1.3764E-07		4.0841E-05
A+++ '	4.46075-21	2.6514E-16	3.2017E-15	A+++	2.3633E-2C	2.6248E-15	4.6249E-14
A++++	1.3322E-42	4.1384E-33	4.8011E-31	A++++	" 3.2813E-41	3.1962E-31	7.1359E-29
AV	1.79248-71		1.09548-52	AV .	1.7994E-70	5.5982E-53	3.2089E-49
AVI	0.	8.2410E-86	1.42436-80	I VA	0.	5.3631E-81	1.65728-75
AVII	0.	.0.	0.	AVII	0.	0.	0.
IIIVA	0.	0.	. 0.	AVIII	0.	0.	0.
					"	•	
				•	•		
	-					. •	
				•	•		
				•			•
P1 -	5.00E+00 N/SO-M	 U\$1= 6.20E+0 	3 M/SEC	P1 = 5.	00E+00 N/SQ-M	 US1='6.60E+0 	3 M/SEC
	MONTHE SHOCK	STANSING SUDGE	BEELECTED CHOCK	_			
		STANDING SHOCK					REFLECTED SHOCK
₽	5.6422E+02	5.6965E+03	7.5419E+03	P	6.4292E+02	6.9523E+03	9.1586E+03
T	3.66C8E+01	4.6233E+01	4.8775E+01	T	3.7573E+01	4.8423E+01	5.1698E+01
RHO .	1.1776E+01	7.6457E+01	9.0363E+01	RHO.	1.2558E+Ol	8.4145E+01	9.7648E+01
н	1.2322E+02	2.2384E+02	2-57175+02	н	1.3962E+02	2.5513E+02	2.9273E+02
A	5.7018E+00	7.2062E+00	7.6702E+00	A	5.8984E+00	7.6266E+00	8.2097E+00
s ´	.1.3230E+00	1.4192E+03	1.4644E+00		1.3556E+00	1.4656E+00	1.5145E+00
ž	1.3089E+00	1.6115E+00	1.7111E+00	· ;	1.3626E+00	1.7063E+00	1.8142E+00
GAME	6.7851E-01	6.9699E-01	7.0490E-01	GAME			
GAME	1.7584E+01				6.7956E-01	7.0398E-01	7.1861E-01
	1.13046701	2.7127E+00	2.6343E+00	U ,	1.8827E+01	2.8141 6+00	2.7852E+00
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SPECIE	s	- MOLE FRACTIONS		SPECIES		MOLE FRACTIONS	
E	2.3596E-01	3.7947E-01	4.15596-01	E-	2.66118-01	4.1393E-01	4.4880E-01
Ā	5.2809E-01	2.4107E-01	1.6884E-01	Ä	4.6778E-01	.1.7216E-01	1.02476-01
Ã.	2.3596E-01	3.7945E-01	4.1555E-01	Ä÷	2.6611E-01	4.1389E-01	4.4865E-01
A++	9.7191E-08	7.9134E-06	2.3048E-05				
				A++	1.9361E-07	2.0909F-05	7.6799E-05
A+++	1.0783E-20	8.2583E-16	1.1377E-14	A+++	5.4020E-20	8.7629E-15	2.1603E-13
A++++	9.3126E-42	3.6400E-32	4.9376E-30	A++++	1.8689E-40	3.0455E-30	1.2605E-27
AV '	3,4140E-70	1.7402E-54	3.4851E-51	- AV	3.7494E-68	2.0029E-51	3.0749E-47
AVI	0.	3,3527E-83	1.1085E-78	IVA	0.	9.4032E-79	1.2532E-72
AVII '	0.	0.	0.	AVII	ō.	0.	0.
AVILL	0.	0.	0.	AVIET	o.	0.	o.
		•	-				

P1 = 5.00E+	00 N/SO-M+ U	Si= 6.80E+03 M/SE	c	P1 = 5.0	0E+00 N/S0-M.	US1= 7.20E+03 M/S	EC
P 6.8 T 3.8 RHO 1.2 H 1.4 A 5.9 S 1.3 Z 1.3 GAME 6.8	409E+02 7 052E+01 4 927E+01 8 820E+02 2 997E+00 7 725E+00' 1 907E+00 1	.9665E+01 5 .7497E+01 1 .7148E+02 3 .8606E+00 8 .4892E+00 1 .7546E+00 1	CTED SHOCK .0032E+04 .3602E+01 .0034E+02 .1143E+02 .5501E+00 .5398E+00 .3114E-01 .8694E+00	P T RHO H S S Z GAME	7.7008E+02 3.9016E+01	5.2725E+01 9.2677E+01 3.0555E+02 8.4195E+00 1.5368E+00 1.8511E+00 7.2631E+01	ECTED SHOCK 1.1971E+04 6.0005E+01 1.0180E+02 3.5262E+02 9.6189E+00 1.5919E+00 7.8678E+01 3.1916E+00
SPECIES	MOt	E FRACTIONS		SPECIES	MO	LE FRACTIONS	
A 4. A+ 2. A++ 2. A+++ 1. A++++ 8.	6946E~07 1746E~15 0629E~40 0330E~67	4.3001E-01 3.5479E-05 3.1796E-14 3.3988E-29 9.4364E-50	4.6390E-01 7.2359E-02 4.6358E-01 1.6118E-04 1.3159E-12 3.5575E-26 5.9555E-45 2.4788E-69 0.	E- A++ A+++ A++++ AVI AVII AVIII	3.1003E-01 3.7994E-01 3.1003E-01 5.1298E-07 5.4269E-19 1.4750E-38 4.3821E-65 0.	4.5979E-01 8.0539E-02 4.5955E-01 1.2266E-04 6.5395E-13 9.3359E-27 6.9027E-46 1.0635E-70 0.	4.8074E-01 2.2043E-02 4.8668E-01 1.5328E-03 3.2226E-10 8.7977E-22 4.9273E-38 2.4470E-59 5.0157E-89
						•	-
:	•	•	•				
P1 = 5.00E+	00 N/SO-M. L	S1= 7.00E+03 M/SE	ċ	P1 = 5.0	0E+00 N/S0-M.	US1= 7.40E+03 M/S	EC ' ' ' ' ' ' ' ' ' '
P 7.2 T 3.8 RHO 1.3 H 1.5 A 6.1 S 1.3 Z 1.4 GAME 6.8	533E+01 5 281E+01 6 704E+02 2 031E+00 6 897E+00 1 196E+00 0 092E-01 7	1.3241E+03 1.1069E+01 5.0394E+01 1.8829E+02 1.1201E+00 5130E+00 1.8032E+00 1.1602E-01	ECTED SHOCK 1.0969F+04 5.61845+01 1.0193F+02 3.3138E+02 0.0029E+00 1.5657E+00 1.9154E+00 7.5317E-01 1.0047F+00	P T RHO H A S Z GAME	8.1489E+02 3.9503E+01 1.3940E+01	5.4792E+01 9.4106E+01 3.2323E+02 8.7871E+00 1.5605E+00 1.8973E+00 7.4274E-01	ECTED SHOCK. 1'.3036E+04 6.4980F+01 1'.0060E+02 1'.0040E+01 1'.6175E+00 7'.7788E-01 3.4195E+00
SPECIĘS · ··	MOL	E FRACTIONS	· 	SPECIES		LE FRÁCTIONS	
A 4. A+ 2. A++ 3. A+++ 2. A++++ 2.	0882E-01 9559E-01 7195E-07 4518E-19 5389E-39 0206E-66	4.4542E-01 1.0923E-01 4.4529E-01 6.3379E-05 1:3097E-13 4.7707E-28 6.3480E-48 1.2329E-73	4.7791E-01 4.4596E-02 4.7707E-01 4.1848E-04 1.3520E-11 2.6223E-24 5.3348E-42 4.8038E-65 0.	A + + + + + + + + + + + + + + + + + + +	3.2423E-01 3.5153E-01 3.2423E-01 7.0202E-07 1.1220E-16 5.2499E-38 2.2906E-64 0.	4.7294E-01 5.4396E-02 4.7240E-01 2.7051E-04 4.5066E-12 3.3170E-25 1.9715E-43 3.9562E-67 0.	4.9858E-01 9.5430E-03 4.8519E-01 6.6941E-03 1.2091E-08 6.7471E-19 1.6762E-33 8.4117E-53 1.5981E-79

P1 = 5.00E+00 N/SQ-M. US1= 7.60E+03 M/SEC				P1 = 5.00E+00 N/S0-M. US1= 8.00E+03 M/SEC			
			•			·	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	8.6089E+02	1.0527E+04	1.4116E+04	P	9.5647E+02	1.2011E+04	1.6308E+04
T	3.9999E+01	5.7562E+01	6.8985E+01	Ť	4.1022E+01	6.5466E+01	7.4035E+01
	1.4Z44E+01	9.4308E+01	1.0102E+02	RHO	1.4798E+01	9.1712E+01	1.0519E+02
н	1.8507E+02	3.4130E+02	3.9743E+02				4.4185E+02
Ā				H	2.0503E+02	3.78558+02	
	6.4279E+00	9.2670E+00	1.0164E+01	A	6.6592E+00	1.0041E+01	
S .	1.4436E+00	1.5838E+00	1.6411E+00	S	1.4810E+00	1.6279E+00	1.6849E+00
Z	1.5110E+00	1.9393E+00	2.0257E+00	· Z	1.5756E+00	2.0005E+00	2.0941F+00
GAME	6.8364E-01	7.6932E-01	7.3925E-01	GAME	6.8606E-01	7.6979E-01	7.1080E-01
U	2. 1901E+01	3.3098E+00	3.5942E+00	U .	2.3119E+01	3.7311E+00 .	3.8058E+00
SPECIES MOLE FRACTIONS			SPECIES MOLE FRACTIONS				
e: .	2 2020F 01	4 04345 01	E 04355-01	_			5 AA435 A4
E	3.3820E-01	4.8434E-01	5.06356-01	Ę-	3.65345-01	5.0012E-01	5.2247E-01
A	3.2360E-01	3.2058E-02	5.3288E-03	A	2.69338-01	8.0869E-03	2.8712E-03
A +	3.3820E-01	4.8287E-01	4.7030E-01	A+	3.65335-01	4.8348E-01	. 4.2686E-01
A++	9.6080E-07	. 7.3324E-04	1.8027E-02	A++	1.80385-36	8.32G5E-03	4.7798E-02
A+++	2.3634E-18	5.1189E-11	1.4521E-07	A+++	1.06198-17	1.9906E-08	1.9032E-06
A++++	2.0489E-37	2.8476E-23	6.5886E-17	A++++	3.4928E-36	1.58486-18	8.2584E-15
AV	8.16376-64	2.0797E-40	2.2856E-30	- AV	1.5724E-61	5.9579E-33	4.9946E-27
IVA	J.	7.9176E-63	2.8237E-48	ÄVI	0.	4.7042E-52	2.0150E-43
IIVA	ā.	0.	4.1020E-73	IIVA	o. `	1.4003E-78	3.3384E-66
ITTVA	0.	ŏ.	0.	IIIVA	0.	0.	0.
~****	•	•	•	AV111	٠.	0.	0.
		*					
	•						
				-	÷		
			·- ·· · ·- ·				
P1 = 5	5.00E+00 N/SC-M	US1= 7.80E+0	3 M/SEC	P1 = 5	-021M 00+300.	• US1= 8.20E+0	3 M/SEC
	MOVING SHOCK		REFLECTED SHOCK				REFLECTED SHOCK
P	,9.0808E+02	1.1258E+04	1.5198E+04	Р	1.0060E+03	1.2804E+04.	1.7411E+04
т	4.0504F+01	6.1389E+01	7.1772E+01			6.8831E+01	7.5849E+01
RHO			, , , , , , , , , , , , , , , , , , , ,	т	4.1558E+01	0.88316+01	1000172.01
н	1.4530E+01	9.2912E+01	1.0288E+02	RHO	4.1558E+01 1.5046E+01	9.1700E+01	1.0782E+02
A	1.9493F+02	9.2912E+01 3.5969E+02			1.5046E+01	9.1700E+01	1.0782E+02
			1.0288E+02	RHO	1.5046E+01 2.1535E+02	9.1700E+01 3.9796E+02	1.0782E+02 4.6391E+02
	1.9493F+J2 6.5419E+O0	3.5969E+02 9.8061E+00	1.0288E+02 4.1940E+02 1.0315E+01	RHO H A	1.5046E+01 2.1535E+02 6.7803E+00	9.1700E+01 3.5796E+02 1.0142E+01	1.0782E+02 4.6391E+02 1.0680E+01
S	1.9493F+J2 6.5419E+OO 1.4622E+OO	3.5969E+02 9.8061E+00 1.6067E+00	1.0288E+02 4.1940E+02 1.0315E+01 1.6628E+00	RHO H A S	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00	9.1700E+01 3.5796E+02 1.0142E+01 1.6492E+00	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00
S Z	1.9493F+02 6.5419E+00 1.4622E+00 1.5430E+00	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00	1.0288E+02 4.1940F+02 1.0315E+01 1.6628E+00 2.0583E+00	RHO H A S Z	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00 1.6090E+00	9.1700E+01 3.5796E+02 1.0142E+01 1.6492E+00 2.0285E+00	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00
S Z GAME	1.9493F+02 6.5419E+00 1.4622E+00 1.5430F+00 6.8477E-01	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01	1.0288E+02 4.1940F+02 1.0315E+01 1.6628F+00 2.0583E+00 7.2017F-01	RHO H A S Z Game	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01	9.1700E+01 3.9796E+02 1.0142E+01 1.6492E+00 2.0285E+00 7.3662E-01	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01
S Z	1.9493F+02 6.5419E+00 1.4622E+00 1.5430E+00	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00	1.0288E+02 4.1940F+02 1.0315E+01 1.6628E+00 2.0583E+00	RHO H A S Z	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00 1.6090E+00	9.1700E+01 3.5796E+02 1.0142E+01 1.6492E+00 2.0285E+00	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00
S Z GAME U	1.9493F+J2 6.5419E+O0 1.462ZE+O0 1.5430F+O0 6.8477E-O1 2.2511E+O1	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01 3.5248E+03	1.0288E+02 4.1940F+02 1.0315E+01 1.6628F+00 2.0583E+00 7.2017F-01 3.7027F+00	RHO H A S Z Game U	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1	9.1700E+01 3.9796E+02 1.0142E+01 1.6492E+00 2.0285E+00 7.3662E-01 3.8943E+00	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500E+00
S Z GAME U	1.9493F+02 6.5419E+00 1.4622E+00 1.5430F+00 6.8477E-01 2.2511E+01	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01 3.5248E+00	1.0288E+02 4.1940F+02 1.0315E+01 1.6628E+00 2.0583E+00 7.2017F-01 3.7027F+00	RHO H A S Z GAME U	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1	9-1700E+01 3-9796E+02 1-0142E+01 1-6492E+00 2-0285E+00 7-3662E-01 3-8943E+00	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500E+00
SPECIES	1.9493F+02 6.5419E+00 1.4622E+00 1.5430E+00 6.847TE-01 2.2511E+01	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01 3.5248E+00 - MOLE FRACTIONS 4.9335E-01	1.0288E+02 4.1940F+02 1.0315E+01 1.6628F+00 2.0583E+00 7.2017F-01 3.7027F+00	RHO H A S Z GAME U SPECIES	1.5046E+01 2.1539E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1	9-1700E+01 3-5796E+02 1-0142E+01 1-6492E+00 2-0285E+00 7-3662E-01 3-8943E+00	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500E+00
S Z GAME U SPECIES	1.9493F+02 6.5419E+00 1.4622E+00 1.5430F+00 6.8477E-01 2.2511E+01 3.5191E-01 2.9619E-01	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01 3.5248E+00 - MOLE FRACTIONS 4.9335E-01 1.5880E-02	1.0288E+02 4.1940E+02 1.0315E+01 1.6628E+00 2.0583E+00 7.2017F-01 3.7027F+00	RHO H A S Z GAME U SPECIES	1.5046E+01 2.1539E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1	9-1700E+01 3.9796E+02 1.0142E+01 1.6492E+00 2.0285E+00 7.3662E-01 3.8943E+00 - MOLE FRACTIONS 5.0703E-01 4.9398E-03	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500F+00
SPECIES	1.9493F+02 6.5419E+00 1.4622E+00 1.5430E+00 6.847TE-01 2.2511E+01	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01 3.5248E+00 - MOLE FRACTIONS 4.9335E-01	1.0288E+02 4.1940E+02 1.0315E+01 1.6628E+00 2.0583E+00 7.2017F-01 3.7027F+00	RHO H A S Z GAME U SPECIES	1.5046E+01 2.1539E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1	9-1700E+01 3-5796E+02 1-0142E+01 1-6492E+00 2-0285E+00 7-3662E-01 3-8943E+00	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500E+00
S Z GAME U SPECIES	1.9493F+02 6.5419E+00 1.4622E+00 1.5430F+00 6.8477E-01 2.2511E+01 3.5191E-01 2.9619E-01	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01 3.5248E+00 - MOLE FRACTIONS 4.9335E-01 1.5880E-02 4.8819E-01	1.0288E+02 4.1940E+02 1.0315E+01 1.6628E+00 2.0583E+00 7.2017F-01 3.7027F+00	RHO H A S Z GAME U SPECIES	1.5046E+01 2.1539E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1	9-1700E+01 3-5796E+02 1-0142E+01 1-6492E+00 2-0285E+00 7-3662E-01 3-8943E+00 - MOLE FRACTIONS 5-0703E-01 4-9398E-03 4-6902E-01	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500F+00
S Z GAME U SPECIES	1.9493F+02 6.5419E+00 1.4622E+00 1.5430E+00 6.8477E-01 2.2511E+01 3.5191E-01 2.9619E-01 3.5190E-01 1.3175E-06	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01 3.5248E+00 - MOLE FRACTIONS 4.9335E-01 1.5880E-02 4.8819E-01 2.5805E-03	1.0288E+02 4.1940F+02 1.0315E+01 1.6628F+00 2.0583E+00 7.2017F-01 3.7027F+00	RHO H A S Z GAME U SPECIES	1.5046E+01 2.1539E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1 3.7849F-01 2.4303E-01 3.7848E-01 2.4869E-06	9-1700E+01 3-5796E+02 1-0142E+01 1-6492E+00 2-0285E+00 7-3662E-01 3-8943E+00 - MOLE FRACTIONS 5-0703E-01 4-9398E-03 4-6902E-01 1-9007E-02	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500E+00 5.3031E-01 2.3614E-03 4.0435E-01 6.2975E-02
S Z GAME U SPECIES E-AA+A++	1.9493F+02 6.5419E+00 1.4622E+00 1.5430F+00 6.8477E-01 2.2511E+01 3.5191E-01 3.5191E-01 3.5190E-01 1.3175E-06 5.1135E-18	3.5969E+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01 3.5248E+00 - MOLE FRACTICNS 4.9335E-01 1.5880E-02 4.8819E-01 2.5805E-03 1.1102E-09	1.0288E+02 4.1940F+02 1.0315E+01 1.6628F+00 2.0583E+00 7.2017F-01 3.7027F+00 5.1416E-01 3.7367E-03 4.5004E-01 3.2059E-02 6.4733E-07	RHO H A S Z GAME U SPECIES E- A A+ A++	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1 3.7849E-01 2.4303E-01 3.7848E-01 2.4869E-06 2.2965E-17	9.1700E+01 3.5796E+02 1.0142E+01 1.6492E+00 2.028E5+00 7.3662E-01 3.8943E+00 - MOLE FRACTIONS 5.0703E-01 4.9398E-03 4.6902E-01 1.9007E-02 1.5912E-07	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 7.0628E-01 3.8500E+00 5.3031E-01 2.3614E-03 4.0435E-01 6.2975E-02 4.1441E-36
S Z Z GAME U SPECIES E-A A A+A A++A A+++A+++	1.9493F+02 6.5419E+00 1.4622E+00 1.5430E+00 6.8477E-01 2.2511E+01 3.5191E-01 2.9619E-01 3.5190E-01 1.3175E-06 5.1135E-18 9.9433E-37	3.5969F+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01 3.5248E+00 - MOLE FRACTIONS 4.9335E-01 1.5880E-02 4.8819E-01 2.5805E-03 1.1102E-09 8.0217E-21	1.0288E+02 4.1940F+02 1.0315E+01 1.6628F+00 2.0583E+00 7.2017F-01 3.7027F+00 5.1416E-01 3.7367E-03 4.5004E-01 3.2059E-02 6.4733E-07 1.0728F-15	RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+CI 3.7849F-01 2.4303E-01 3.7848E-01 2.4869E-06 2.2965F-17 1.4756E-35	9-1700E+01 3-5796E+02 1-0142E+01 1-6492E+00 2-0285E+00 7-3662E-01 3-8943E+00 - MOLE FRACTIONS 5-0703E-01 4-9398E-03 4-6902E-01 1-9007E-02 1-5912E-07 7-3432E-17	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500E+00 5.3031E-01 2.3614E-03 4.0435E-01 6.2975E-02 4.1441E-06 3.6830E-14
S Z Z GAME U SPECIES E- A A+ A+++ A++++ AV	1.9493F+02 6.5419E+00 1.4622E+00 1.5430E+00 6.8477E-01 2.2511E+01 3.5191E-01 3.5190E-01 3.5190E-01 1.3175E-06 5.1135E-18 9.9433E-37 3.6987E-67	3.5969F+02 9.8061E+00 1.6067E+00 7.9361E-01 3.5248E+00 - MOLE FRACTIONS 4.9335E-01 1.5880E-02 4.8819E-01 2.5865E-03 1.1102E-09 9.0217E-21 1.4988E-36	1.0288E+02 4.1940F+02 1.0315E+01 1.6628F+00 2.0583E+00 7.2017F-01 3.7027F+00 5.1416E-01 3.7367E-03 4.5004E-01 3.2059E-02 6.4733E-07 1.0728F-15 1.9136E-28	RHO H A S Z GAME U SPECIES E- A A+ A++ A++ A++	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1 3.7849F-01 2.4303E-01 3.7848E-01 2.4869E-06 2.2965F-17 1.4756E-35 1.1140E-66	9-1700E+01 3.9796E+02 1.0142E+01 1.6492E+00 2.0285E+00 7.3662E-01 3.8943E+00 - MOLE FRACTIONS 5.0703E-01 4.9398E-03 4.6902E-01 1.9007E-02 1.5912E-07 7.3432E-17 2.5405E-30	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500E+00 5.3031E-01 2.3614E-03 4.0435E-01 6.2975E-02 4.1441E-36 3.6830E-14 5.5578E-26
S Z Z GAME U SPECIES E-A A+A++A+++A+++AVI	1.9493F+02 6.5419E+00 1.4622E+00 1.5430F+00 6.8477E-01 2.2511E+01 3.5191E-01 3.5190E-01 1.3175E-06 5.1135E-18 9.9433E-37 3.6987E-62 0.	3.5969F+02 9.8061E+00 1.6067E+00 1.9737E+00 7.9361E-01 3.5248E+00 - MOLE FRACTICNS 4.9335E-01 1.5880E-02 4.8819E-01 2.5805E-03 1.1102E-09 9.0217E-21 1.4988E-36 3.1953E-57	1.0288E+02 4.1940F+02 1.0315E+01 1.6628F+00 2.0583E+00 7.2017F-01 3.7027F+00 5.1416E-01 3.7367E-03 4.5004E-01 3.2059E-02 6.4733E-07 1.0728F-15 1.9136E-28 1.7393E-45	RHO H A S Z GAME U SPECIES E- A+ A++ A+++ AV AVI	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1 3.7849E-01 2.4303E-01 3.7848E-01 2.4869E-06 2.2965E-17 1.4756E-35 1.1140E-6C	9.1700E+01 3.5796E+02 1.0142E+01 1.6492E+00 2.0285E+00 7.3662E-01 3.8943E+00 - MOLE FRACTIONS 5.0703E-01 4.9398E-03 4.6902E-01 1.9007E-02 1.5912E-07 7.3432E-17 2.5409E-30 3.0685E-48	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500E+00 5.3031E-01 2.3614E-03 4.0435E-01 6.2975E-02 4.1441E-36 3.6830E-14 5.5578E-26
S Z Z GAME U SPECIES E- A A+ A+++ A++++ AV	1.9493F+02 6.5419E+00 1.4622E+00 1.5430E+00 6.8477E-01 2.2511E+01 3.5191E-01 3.5190E-01 3.5190E-01 1.3175E-06 5.1135E-18 9.9433E-37 3.6987E-67	3.5969F+02 9.8061E+00 1.6067E+00 7.9361E-01 3.5248E+00 - MOLE FRACTIONS 4.9335E-01 1.5880E-02 4.8819E-01 2.5865E-03 1.1102E-09 9.0217E-21 1.4988E-36	1.0288E+02 4.1940F+02 1.0315E+01 1.6628F+00 2.0583E+00 7.2017F-01 3.7027F+00 5.1416E-01 3.7367E-03 4.5004E-01 3.2059E-02 6.4733E-07 1.0728F-15 1.9136E-28	RHO H A S Z GAME U SPECIES E- A A+ A++ A++ A++	1.5046E+01 2.1535E+02 6.7803E+00 1.5002E+00 1.6090E+00 6.8753E-01 2.3725E+C1 3.7849F-01 2.4303E-01 3.7848E-01 2.4869E-06 2.2965F-17 1.4756E-35 1.1140E-66	9-1700E+01 3.9796E+02 1.0142E+01 1.6492E+00 2.0285E+00 7.3662E-01 3.8943E+00 - MOLE FRACTIONS 5.0703E-01 4.9398E-03 4.6902E-01 1.9007E-02 1.5912E-07 7.3432E-17 2.5405E-30	1.0782E+02 4.6391E+02 1.0680E+01 1.7054E+00 2.1291E+00 7.0628E-01 3.8500E+00 5.3031E-01 2.3614E-03 4.0435E-01 6.2975E-02 4.1441E-06 3.6830E-14 5.5578E-26

P1 = 5.00E+00 N/SQ-M. US1= 8.40E+03 M/SEC			P1 = 5.00E+00 N/SQ-M. US1= 8.80E+03 M/SEC				
	MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	1.0568E+03	1.3644E+04	1.8543E+04	Р	1.1617E+03	1.5408E+04	2.0843E+04
Ť	4.2117E+01	7.1303E+01	7.7548E+01	Ţ	4.3330E+01	7.51156+01	8.0543E+01
RHO	1.5272E+01	9.29766+01	1.1033E+02	RHO	1.5656E+01	9.6541E+01	1.1526E+02
Η ′	2. 2601E+02	4.1797E+02	4.8669E+02	н .	2.4800E+02	4-5955E+02	5.3357E+02
A ;	6.9060E+00	1.0277E+01	1.0875E+01	A	7.1745E+00	1.0615E+01	1.1267E+01
Š	1.5196E+00	1.6691E+00	1.72716+00	ŝ	1.55916+00	1.7099E+00	1.7700E+00
ž	1.6429E+00	2.0582E+00	2.1673E+00	ž.	1.7126E+00	2.1247E+00	2.2453E+00
GAME			7.0371E-01	GAME	6.9366E-01	7-0607E-01	7.0195E-01
	6.8924E-01	7.1970E-01		U	2.5532E+01	4.1476E+00	4.0118E+00
U .	2.4329E+01	. 4.0028E+00	3.9075E+00	· ·	2.33326+01	4114100	4.01102400
SPECIE	SPECIES MOLE FRACTIONS		SPECIES MOLE FRACTIONS				
_	2 01345 01	5 1/135 01	5 3050F-01	E-	4.1608E-01	5.2935E-01	5.5462E-01
E-	3.9134E-01	5.1413E-01	5.3859E-01	Ä	1.6786E-01		
A	2.1733E-01	3.5822E-03	1.9766E-03	A+	4.1606E-01	2.2946E-03	1.4609E-03
A+	3.91335-01	4.5045E-01	3.8030E-01			4.0738E-01	3.3323E-01
A++	3.4598E-06	3.1835E-02	7.9133E-02	A++	6.8997E-06	6.0979E-02	1.1066E-01
A+++	5.16455-17	6.0730E-07	8.1189E-06	A+++	2.6638E-16	3.6005E-06	2.3432E-05
A++++	7.5280E-35	8.9354E-16	1.3615E-13	A++++	1.4379E-33	2.6370E-14	1.1134E-12
AV	3.5961E-59	1.3334E-28	4.6148E-25	AV	2.2440E-57	3.0351E-26	1.4360E-23
AVI	0.	9.4659E-46	1.5340E-40	IVA	1.8087E-87	2.6467E-42	
AVII	0.	1.3885E-69	4.4806E-62	AVII	0.	1.2240E-64	7.0022E-59
1 I I VA	0.	0.	1.5716E-88	IIIVA	0.	0.	4.3324E-84
			•		•		•
				•			
				•			
				•	•		
P1 =	5.00E+00 N/S0-M	• US1= 8.60E+0	3 M/SEC	P1 = 5	.00E+00 N/SO~M	I. US1= 9.00E+0	3 M/SEC
P1 =	5.00E+00 N/S0-M	. US1= 8.60E+0	D3 M/SEC	P1 = 5			
P1 =	5.00E+00 N/S0-M	US1= 8.60E+0			MOVING SHOCK	STANDING SHOCK	
P1 =				P	MOVING SHOCK 1.2159E+03		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	P T	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 1.1087E+03	STANDING SHOCK 1.4516E+04 7.3352E+01	REFLECTED SHOCK 1.9689E+04	P T RHO	MOVING SHOCK 1.2159E+03	STANDING SHOCK 1.6309E+04	REFLECTED SHOCK 2.1998E+04
P T RHO	MOVING SHOCK 1-1087E+03 4-2705E+01 1-5476E+01	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02	P T	MOVING SHOCK 1.2159E+03 4.4004E+01	STANDING SHOCK 1.6309E+04 7.6695E+01	REFLECTED SHOCK 2.1998E+04 8.1938E+01
P T RHO H	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02	REFLECTED SMOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02	P T RHO	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01	STANDING SHOCK 1-6309E+04 7-6695E+01 9-8439E+01 4-8106E+02	REFLECTED SHOCK 2-1998E+04 8-1938E+01 1-1746E+02 5-5770E+02
P T RHO H	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01	Р Т RHO Н	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02	STANDING SHOCK 1-6309E+04 7-6695E+01 9-8439E+01 4-8106E+02 1-0795E+01	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01
P T RHO H A	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00	P T RHO H	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.5792E+00	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.0795E+01 1.7305E+00	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00
P T RHO H A S	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00	P T RHO H A S Z	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.5792E+00 1.7480E+00	STANDING SHOCK 1.6309E+04 7.6699E+01 9.9439E+01 4.8106E+02 1.0799E+01 1.7305E+00 2.1602E+00	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00
P T RHO H A S Z	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00 6.9125E-01	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01	P T RHO H A S Z Game	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.5792E+00 1.7480E+00 6.9664E-01	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.0795E+01 1.7305E+00 2.1602E+00 7.0342E-01	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E+01
P T RHO H A S	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00	P T RHO H A S Z	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.5792E+00 1.7480E+00	STANDING SHOCK 1.6309E+04 7.6699E+01 9.9439E+01 4.8106E+02 1.0799E+01 1.7305E+00 2.1602E+00	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1-1087E+03 4-2705E+01 1-5476E+01 2-3688E+02 7-0370E+00 1-5393E+00 1-6775E+00 6-9125E-01 2-4932E+01	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00	P T RHO H A S Z Game	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.5792E+00 1.7480E+00 6.9664E-01 2.6129E+01	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.0795E+01 1.7305E+00 2.1602E+00 7.0342E-01	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E+01 4.0618E+00
P T RHO H A S CAME U	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00 6.9125E-01 2.4932E+01	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00	P T RHO H A S Z Game U	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.77480E+00 6.9664E-01 2.6129E+01	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.0795E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E+01 4.0618E+00
P T RHO H A S C Z GAME U SPECIE	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00 6.9125E-01 2.4932E+01	\$TANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.5792E+00 1.7480E+00 6.966E+01 2.6129E+01	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.07795E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E+01 4.0618E+00
P T RHO H A S CAME U SPECIE	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.6775E+00 6.9125E-01 2.4932E+01 S	\$TANDING SHOCK 1.4516E04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E00 7.1084E-01 4.0831E+00 - MOLE FRACTIONS 5.2166E-01 2.8009E-03	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.7780E+00 1.7780E+00 2.6129E+01 4.2793E-01 1.4415E-01	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.0795E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00 - MOLE FRACTICNS 5.3707E-01 1.9322E-03	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E-01 4.0618E+00
P T RHO H A S S G AME U S PECIE E- A	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00 6.9125E-01 2.4932E+01 S 4.0387E-01 1.9226E-01 4.0386E-01	\$TANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00	P T RHO H A S Z GAME U SPECIES E— A A+	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.7480E+00 6.764E-01 2.6129E+01 4.2793E-01 1.4415E-01 4.2791E-01	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8108E+02 1.0795E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00 - MOLE FRACTICNS 5.3707E-01 1.9322E-03 3.8493E-01	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E+01 4.0618E+00
PTTRHOHASSZGAMEUUSPECIE	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00 6.9125E-01 2.4932E+01 S	\$TANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00 - MOLE FRACTIONS 5.2166E-01 2.8009E-03 4.2941E-01 4.6127E-02	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00 5.4665E-01 1.6906E-03 3.5669E-01 9.4955E-02	PTRHOHA A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.5792E+00 1.7480E+00 2.6129E+01	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.07795E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E+01 4.0618E+00 5.6250E+01 1.2694E+03 3.1000E+01 1.2619E+01
P T RHO H A S S G AME U S PECIE E- A	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00 6.9125E-01 2.4932E+01 S 4.0387E-01 1.9226E-01 4.0386E-01	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00 - MOLE FRACTIONS 5.2166E-01 2.8009E-03 4.2941E-01	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.7780E+00 6.7664E-01 2.6129E+01 4.2793E-01 1.4415E-01 4.2791E-01 1.0032E-05 6.5488E-16	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.0795E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00 - MOLE FRACTICNS 5.3707E-01 1.9322E-03 3.8493E-01 7.6061E-02 6.8638E-06	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E-01 4.0618E+00 5.6250E-01 1.2694E-03 3.1000E-01 1.2619E-01 3.6695E-01
PTTRHOHASSZGAMEUUSPECIE	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00 6.9125E-01 2.4932E+01 S	\$TANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00 - MOLE FRACTIONS 5.2166E-01 2.8009E-03 4.2941E-01 4.6127E-02	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00 5.4665E-01 1.6906E-03 3.5669E-01 9.4955E-02	P T RHO H A S C GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.7480E+00 6.964E-01 2.6129E+01	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.07795E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E+01 4.0618E+00 5.6250E+01 1.2694E+03 3.1000E+01 1.2619E+01
P T RHO H A S Z GAME U SPECIE E-A A++ A+++	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.6775E+00 6.9125E-01 2.4932E+01 S 4.0387E-01 4.0386E-01 4.0386E-01 4.0386E-01	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00 - MOLE FRACTIONS 5.2166E-01 2.8009E-03 4.2941E-01 4.6127E-02 1.6479E-06	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00 5.4665E-01 1.6906E-03 3.5669E-01 9.4955E-02 1.4259E-05	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ A	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.7780E+00 6.7664E-01 2.6129E+01 4.2793E-01 1.4415E-01 4.2791E-01 1.0032E-05 6.5488E-16	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.0795E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00 - MOLE FRACTICNS 5.3707E-01 1.9322E-03 3.8493E-01 7.6061E-02 6.8638E-06	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E+01 4.0618E+00 5.6250E+01 1.2694E+03 3.1000E+01 1.2619E+01 3.6695E+01
P T RHO H A S Z GAME U S PEC I E E A A + A + + + + A + + + + A V	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00 6.9125E-01 2.4932E+01 S 4.0387E-01 1.9226E-01 4.0386E-01 4.0386E-01 4.0500E-06 1.1540E-16 3.2737E-34 3.4784E-58	\$TANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00 - MOLE FRACTIONS 5.2166E-01 2.8009E-03 4.2941E-01 4.6127E-02 1.6479E-06 5.9040E-15 2.7367E-27	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00 5.4665E-01 1.6906E-03 3.5669E-01 9.4955E-02 1.4259E-05 4.1318E-13 2.8206E-24	P T RHO H A S C GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.7480E+00 6.964E-01 2.6129E+01	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.07795E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E+01 4.0618E+00 5.6250E+01 1.2694E+03 3.1000E+01 1.2619E+01 3.6695E+05 2.7524E+12
P T RHO H A S Z GAME U SPECIE E-A A++++++ A A A V I	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.6775E+00 6.9125E-01 2.4932E+01 S 4.0387E-01 4.0386E-01 4.0386E-01 4.0386E-01 4.0386E-01 4.0386E-01	STANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00 - MOLE FRACTIONS 5.2166E-01 2.8009E-03 4.2941E-01 4.6127E-02 1.6479E-06 5.9040E-15 2.7367E-27 7.8479E-24	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00 5.4665E-01 1.6906E-03 3.5669E-01 9.4955E-02 1.4259E-05 4.1318E-13 2.8206E-24 2.2141E-39	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ A	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.5792E+00 1.7480E+00 6.9664E+01 2.6129E+01 4.2791E-01 1.0032E-05 6.5488E-16 7.3960E-33 1.5926E-56	STANDING SHOCK 1.6309E+04 7.6695E+01 9.8439E+01 4.8106E+02 1.07795E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E-01 4.0618E+00 5.6250E-01 1.2694E-03 3.1000E-01 1.2619E-01 3.6695E-05 2.7524E-12 6.3796E-23 2.2659E-37
P T RHO H A S Z GAME U S PEC I E E A A + A + + + + A + + + + A V	MOVING SHOCK 1.1087E+03 4.2705E+01 1.5476E+01 2.3688E+02 7.0370E+00 1.5393E+00 1.6775E+00 6.9125E-01 2.4932E+01 S 4.0387E-01 1.9226E-01 4.0386E-01 4.0386E-01 4.0500E-06 1.1540E-16 3.2737E-34 3.4784E-58	\$TANDING SHOCK 1.4516E+04 7.3352E+01 9.4662E+01 4.3852E+02 1.0441E+01 1.6895E+00 2.0906E+00 7.1084E-01 4.0831E+00 - MOLE FRACTIONS 5.2166E-01 2.8009E-03 4.2941E-01 4.6127E-02 1.6479E-06 5.9040E-15 2.7367E-27	REFLECTED SHOCK 1.9689E+04 7.9089E+01 1.1286E+02 5.0991E+02 1.1070E+01 1.7485E+00 2.2058E+00 7.0244E-01 3.9608E+00 5.4665E-01 1.6906E-03 3.5669E-01 9.4955E-02 1.4259E-05 4.1318E-13 2.8206E-24	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 1.2159E+03 4.4004E+01 1.5807E+01 2.5938E+02 7.3203E+00 1.7780E+00 1.7780E+00 6.9664E-01 2.6129E+01	STANDING SHOCK 1.6309E+04 7.6699E+01 9.8439E+01 4.8106E+02 1.0799E+01 1.7305E+00 2.1602E+00 7.0342E-01 4.2030E+00 - MOLE FRACTICNS 5.3707E-01 1.9322E-03 3.8493E-01 7.6061E-02 6.8638E-06 9.2138E-14 2.2966E-25 5.1627E-41	REFLECTED SHOCK 2.1998E+04 8.1938E+01 1.1746E+02 5.5770E+02 1.1466E+01 1.7918E+00 2.2857E+00 7.0198E+01 4.0618E+00 5.6250E+01 1.2694E+03 3.1000E+01 1.2619E+01 3.6695E+05 2.7524E+12 6.3796E+23

P1 = 5.00E+00 N/S0-M. US1= 9.20E+03 M/SEC	P1 = 5.00E+00 N/S0-M. US1= 9.60E+03 M/SEC			
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P			
U 2.6723E+01 4.2530E+00 4.1116E+00	U 2.7898E+01 4.3439E+00 4.2120E+00			
SPECIES MOLE FRACTIONS	SPECIES			
E- 4.3941E-01 5.4478E-01 5.7025E-01 A 1.2120E-01 1.6544E-03 1.1053E-03 A+ 4.4938E-01 3.6237E-01 2.8711E-01 A++ 1.5016E-05 9.1188E-02 1.4149E-01 A+++ 1.7395E-15 1.1934E-05 5.5421E-05 A++++ 4.5977E-32 2.7292E-13 6.3821E-12 AV 3.4038E-55 1.3463E-24 2.5680E-22 AVI 1.3459E-83 7.016.0E-40 1.8026E-36 AVII 0. 3.7618E-61 3.5144E-56' AVII 0. 3.3961E-87 2.0848E-80	E- 4.6104E-01 5.5998E-01 5.8531E-01 A 7.7960F-02 1.2443E-03 8.3395E-04 A+ 4.6096E-01 3.1761E-01 2.4251E-01 A++ 3.8607E-05 1.2114E-01 1.7123E-01 A++ 1.7333E-14 3.0113E-05 1.1722E-04 A+++ 3.5463E-30 1.7247E-12 3.010E-11 AV 7.9463E-52 2.7416E-23 3.3600E-21 AVI 6.1411E-8C 5.9336E-38 8.2584E-35 AVII 0. 2.1436E-58 8.8380E-54 AVIII 0. 1.5776E-83 3.7020E-77			
	• .			
P1 = 5.00E+00 N/S0-M. US1= 9.40E+03 M/SEC	P1 = 5.00E+00 N/SQ-M. US1= 9.80E+03 M/SEC			
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK			
P 1.3274E+03 1.8094E+04 2.4258E+04	P 1.4426E+03 1.9731E+04 2.6298E+04 T 4.7702E+01 8.2046E+01 8.7221E+01			
T 4.5578E+01 7.9514E+01 8.4618E+01 RHO 1:6004E+01 1.0185E+02 1.2102E+02 H 2.8288E+02 5.2539E+02 6.0733E+02 A 7.6493E+00 1.1162E+01 1.1872E+01 S 1.6197E+00 1.7722E+00 1.8360E+00	RHO 1.5998E+01 1.0403E+02 1.2283E+02 H 3.0738E+02 5.7124E+02 6.5858E+02 A 8.0751E+00 1.1534E+01 1.2290E+01 S 1.6604E+00 1.8150E+00 1.8814E+00			
T 4.5578E+01 7.9514E+01 8.4618E+01 RHO 1:6004E+01 1.0185E+02 1.2102E+02 H 2.8288E+02 5.2539E+02 6.0733E+02 A 7.6493E+00 1.1162E+01 1.1872E+01	RHO 1.5998E+01 1.0403E+02 1.2283E+02 H 3.0738E+02 5.7124E+02 6.5858E+02 A 8.0751E+00 1.1534E+01 1.2290E+01			
T 4.5578E+01 7.9514E+01 8.4618E+01 RHO 1:6004E+01 1.0185E+02 1.2102E+02 H 2.8288E+02 5.2539E+02 6.0733E+02 A 7.6493E+00 1.1162E+01 1.1872E+01 S 1.6197E+00 1.7722E+00 1.8360E+00 Z 1.8157E+00 2.2343E+00 2.3689E+00 GAME 7.0549E-01 7.0132E-01 7.0316E-01	RHO 1.5998E+01 1.0403E+02 1.2283E+02 H 3.073BE+02 5.7124E+02 6.5858E+02 A 8.0751E+00 1.1534E+01 1.2290E+01 S 1.6604E+00 1.8150E+00 1.8814E+00 Z 1.8904E+00 2.3116E+00 2.4546E+00 GAME 7.2310E-01 7.0141E-01 7.0550E-01			
T 4.5578E+01 7.9514E+01 8.4618E+01 RHO 1:6004E+01 1.0185E+02 1.2102E+02 H 2:8288E+02 5.2539E+02 6.0733E+02 A 7.6493E+00 1.1162E+01 1.1872E+01 S 1.6197E+00 1.7722E+00 1.8350E+00 Z 1.8197E+00 2.2343E+00 2.3689E+00 GAME 7.0549E-01 7.0132E-01 7.0316E-01 U 2:7313E+01 4.2995E+00 4.1615E+00	RHO 1.599E+01 1.0403E+02 1.2283E+02 H 3.073BE+02 5.7124E+02 6.5858E+02 A 8.0751E+00 1.1534E+01 1.2290E+01 S 1.6604E+00 1.8150E+00 1.8814E+00 Z 1.8904E+00 2.3116E+00 2.4546E+00 GAME 7.2310E-01 7.0141E-01 7.0550E-01 U 2.8475E+01 4.3864E+00 4.2631E+00			

	9 - UOE +UO . N/ 5U-M	• 02 f= 1*00F+0		• •	, 3.005400 M.26-h	4 031- 1-04E4	34 H/3CC
	HOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ .	1.5013E+03	2.0405E+04	2.7118E+04	P	1.6185E+03	2.1086E+04	2.7870E+04
T	4.9177E+01	8.3226E+01	8.8498E+01	T	5.3992E+01	8.5363E+01	9.0947E+01
RHC	1.5868E+01	1.0427E+02	1.2267E+02	RHO	1.5150E+01	1.0161E+02	1.1855E+02
н	3.1999E+02	5.9457E+02	6.8463E+02	н	3.4589E+02	6.4126E+02	7.3690E+02
Α	8.3676E+00	1.1720E+01	1.2502E+01	A	9.2645E+00	1.2083E+01	1.2928E+01
7.5	1.6805E+00	1.8370E+00	1.9047E+00	S	1.7197E+00	1.8827E+00	1.9533E+00
ž		2.3512E+00	2.4980E+00	ž	1.9786E+00	2.4309E+00	2.5850E+00
	1.9239E+00			GA ME	8.03#2E-01	7.0356E-01	7.1090E-01
GAME	7.4004E-01	7.0192E-01	7.0705E-01	U	3.0105E+01		
· U · ›	2.9040E+01	4-4268F+00	4.3141E+00	•	3.01036401	4.4958E+00	4.4295E+00
					•		
SPECIES	s	- MOLE FRACTIONS		SPEC	IES	- MOLE FRACTIONS	5
Et in	4.8022E-01	5.7469E-01	5.9968E-01	ε-	4.9460E-01	5.8863E-01	6.1316E-01
Ā	3.9707E-02	9.4329E-04	6.1493E-04	Ā	1-1968E-02	7.0291E-04	4.3240E-04
A+	4.7993E-01	2.7411E-01	1.9996E-01	Ã÷	4.9226E-01	2.3282E-01	1.6010E-01
				Ä++	1.17215-03	1.7772E-01	2.2587E-01
A++	1.4173E-04	1.5019E-01	1.9951E-01	A+++	7.0367E-11		
A+++	4.1181F-13	6.5072E-05	2.3180E-04			1.2617E-04	4.3797E-04
A++++	1.2623E-27	8.2286E-12	1.2568E-10	A++++	1.5396E-23	3.1868E-11	4-8357E-10
AV	9.2050E-48	3.6009E-22	3.6668E-20	AV	2.2811E-41	3.3578E-21	3.47156-19
AVI	6.2483E-74	2.7039E-36	2.9169E-33	IVA	9.3805E-65	7.4075E-35	8.2921E-32
AVII	0.	5.3922F-56	1.5468E-51	I I VA	0.	6.4889E-54	1.9580E-49
IIIVA	0.	3.0083E-80	4.1565E-74	AVLII	0.	2.1205F-77	3.0224E-71
			*				
		•					
				*			
			•	•			
			•				
					_		
P1 = 1	5.00E+00 N/SQ-M	. US1= 1.02E+0	04 M/SEC .	Pl =	5.00E+00 N/SQ-M	. US1= 1.06E+0	4 M/SEC
P1 = 1	5.00E+00 N/SQ-M	. US1= 1.02E+0	04 M/SEC	P1 =	5.00E+00 N/SQ-M	. US1= 1.06E+0	M/SEC
P1 = !			e	P1 =			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 1.5601E+03	STANDING SHOCK 2.0886E+04	REFLECTED SHOCK 2.7695E+04	· P	MGVING SHOCK 1.6773E+03	STANDING SHOCK 2.1181E+04	REFLECTED SHOCK 2.7912E+04
P T	MOVING SHOCK 1.5601E+03 5.1177E+01	STANDING SHOCK 2.0886E+04 8.4339E+01	REFLECTED SHOCK 2.7695E+94 8.9764E+01	Р Т	MGVING SHOCK 1.6773E+03 .5.7312E+01	STANDING SHOCK 2.1181E+04 8.6366E+01	REFLECTED SHOCK 2.7912E+04 9.2155E+01
P T RHO	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01	STANDING SHOCK 2-0886E+04 8-4339E+01 1-0357E+02	REFLECTED SHOCK 2.7695E+34 8.9764E+01 1.2137E+02	P T RHO	MGVING SHOCK 1.6773E+03 .5.7312E+01 1.4656E+01	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02
P T RHO H	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02	STANDING SHOCK 2-0886E+04 8-4339E+01 1-0357E+02 6-1799E+02	REFLECTED SHOCK 2.7695E+34 8.9764E+01 1.2137E+02 7.1115E+02	P T RHO H	MGVING SHOCK 1.6773E+03 .5.7312E+01 1.4656E+01 3.5917E+02	STANDING SHOCK 2-1181E+04 8-6366E+01 9-9251E+01 6-6470E+02	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02
P T RHO H	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00	STANDING SHOCK 2-0886E+04 8-4339E+01 1-0357E+02 6-1799E+02 1-1904E+01	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01	P T RHO H	MGVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01	REFLECTED SHOCK 2-7912E+04 9-2155E+01 1-1525E+02 7-6284E+02 1-3143E+01
P T RHO H A S	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00	STANDING SHOCK 2.0886E+04 8.4339E+01 1.0357E+02 6.1799E+02 1.1904E+01 1.8595E+00	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137F+02 7.1115E+02 1.2719E+01 1.9289E+00	P T RHO H A S	MGVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.6780E+00
P T RHO H A S	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00	STANDING SHOCK 2.0886E+04 8.4339E+01 1.0357E+02 6.1799E+02 1.1904E+01 1.8595E+00 2.3911E+00	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00	P T RHO H A S Z	MGVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.7970E+00	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.5780E+00 2.6279E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01	STANDING SHOCK 2.0886E-04 8.4339E-01 1.0357E-02 6.1799E-02 1.1904E-01 1.8595E-00 2.3911E-00 7.0266E-01	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.0888E-01	P T RHO H A S Z Game	MGVING SHOCK 1.6773E+03 5.77312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E-01	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.6780E+00 2.6279E+00 7.1328E-01
P T RHO H A S	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00	STANDING SHOCK 2.0886E+04 8.4339E+01 1.0357E+02 6.1799E+02 1.1904E+01 1.8595E+00 2.3911E+00	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00	P T RHO H A S Z	MGVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.7970E+00	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.5780E+00 2.6279E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01	STANDING SHOCK 2.0886E-04 8.4339E-01 1.0357E-02 6.1799E-02 1.1904E-01 1.8595E-00 2.3911E-00 7.0266E-01	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.0888E-01	P T RHO H A S Z Game	MGVING SHOCK 1.6773E+03 5.77312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E-01	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.6780E+00 2.6279E+00 7.1328E-01
P T RHO H A S Z GAME	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01 2.9587E+01	STANDING SHOCK 2.0886E-04 8.4339E-01 1.0357E-02 6.1799E-02 1.1904E-01 1.8595E-00 2.3911E-00 7.0266E-01	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.0888E+01 4.3863E+00	P T RHO H A S Z Game	MGVING SHOCK 1.6773E+03 5.77312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E+01 3.0612E+01	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.9780E+00 2.6279E+00 7.1328E-01 4.4739E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01 2.9587E+01	STANDING SHOCK 2.0886E+04 8.4339E+01 1.0357E+02 6.1799E+02 1.1904E+01 1.8595E+00 2.3911E+00 7.0266E-01 4.4640E+00	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.0888E-01 4.3863E+00	P T RHO H A S Z Game	MGVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E-01 3.0612E+01	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.5780E+00 2.6279E+00 7.1328E-01 4.4739E+00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01 2.9587E+01	STANDING SHOCK 2.0886E+04 8.4339E+01 1.0357E+02 6.1799E+02 1.1904E+01 1.8595E+00 2.3911E+00 7.0266E-01 4.4640E+00	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.0888E-01 4.3863E+00	P T RHO H A S Z Game U SPECI	MGVING SHOCK 1.6773E+03 5.77312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.9970E+00 7.920E-01 3.0612E+01	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.9780E+00 2.6279E+00 7.1328E-01 4.4739E+00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01 2.9587E+01 S	STANDING SHOCK 2.0886E+04 8.4339E+01 1.0357E+02 6.1799E+02 1.1904E+01 1.8595E+00 7.0266E-01 4.4640E+00	REFLECTED SHOCK 2.7695E+04 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.0888E-01 4.3863E+00	P T RHO H A S Z GAME U SPECI	MCVING SHOCK 1.6773E+03 5.731ZE+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E-01 3.061ZE+01	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.0780E+00 2.6279E+00 7.1328E-01 4.4739E+00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01 2.9587E+01 S	STANDING SHOCK 2.0886E-04 8.4339E-01 1.0357E-02 6.1799E-02 1.1904E-01 1.8595E-00 2.3911E-00 7.0266E-01 4.4640E+00	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.0888E+01 4.3863E+00 5.0663E-01 5.1853E-04 1.7939E-01	P T RHO H A S Z GAME U SPEC! E- A	MGVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E-01 3.0612E+01 ES	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.628E+02 1.3143E+01 1.5780E+00 2.6279E+00 7.1328E-01 4.4739E+00 3.5563E-04 1.4147E-01
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01 2.9587E+01 S	STANDING SHOCK 2.0886E404 8.4339E401 1.0357E+02 6.1799E402 1.1904E401 1.8595E+00 2.3911E+00 7.0266E-01 4.4640E+00 MOLE FRACTION: 5.8178E-01 8.1719E-04 2.5312E-01 1.6419E-01	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.0888E+01 4.3863E+00 6.0663E-01 5.1853E-04 1.7939E-01 2.1314E-01	P T RHO H S Z Game U SPECI E- A A+ A++	MCVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+C0 1.9970E+00 7.9220E-01 3.0612E+01 ES	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.9780E+00 2.6279E+00 7.1328E-01 4.4739E+00 3.5563E-04 1.4147E-01 2.3811E-01
P T RHO H A S Z GAME U SPECIE: E A A + A + A + + +	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01 2.9587E+01 S	STANDING SHOCK 2.0886E+04 8.4339E+01 1.0357E+02 6.1799E+02 1.1904E+01 1.8595E+00 7.0266E-01 4.6640E+00	REFLECTED SHOCK 2.7695E+04 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.0888E-01 4.3863E+00 6.0663E-01 5.1853E-04 1.7939E-01 2.1314E-01 3.2161E-04	P T RHO H A S Z GAME U SPECI E- A A+ A++ A++	MGVING SHOCK 1.6773E+03 5.731ZE+01 1.4656E+01 3.591TE+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E+01 3.061ZE+01 ES 4.9924E-01 5.661ZE-03 4.9096E-01 4.138ZE-03 1.5405E-09	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.6780E+00 2.6279E+00 7.1328E-01 4.4739E+00 3.5563E-04 1.4147E-01 2.3811E-01 5.9590E-04
P T RHO H A S Z GAME U SPECIE: E-A A++ A+++	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01 2.9587E+01 S	STANDING SHOCK 2.0886E+04 8.4339E+01 1.0357E+02 6.1799E+02 1.1904E+01 1.8595E+00 2.3911E+00 7.0266E-01 4.4640E+00	REFLECTED SHOCK 2.7695E+94 8.9764E+01 1.2137F+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.0888E+01 4.3863E+00 6.0663E-01 5.1853E-04 1.7939E-01 2.1314E-01 3.2161E-04 2.5135E-10	P T RHO H A S Z GAME U SPEC! E- A A+ A++ A+++	MGVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E-01 3.0612E+01 ES	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.6780E+00 2.6279E+00 7.1328E-01 4.4739E+00 6.1947E-01 3.5563E-04 1.4147E-01 2.381LE-01 5.9590E-04 6.329LE-10
P T RHO H A S Z GAME U SPECIE: E — A A + + A + + + A + + + A + + + + A + + + + A + + + + A + + + + A + + + + A + + + + A + + + + A + + + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A +	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 7.6837E-01 2.9587E+01 S	STANDING SHOCK 2.0886E+04 8.4339E+01 1.0357E+02 6.1799E+02 1.1904E+01 1.8595E+00 7.0266E-01 4.4640E+00	REFLECTED SHOCK 2.7695E+34 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 7.0888E+01 4.3863E+00 6.0663E-01 5.1853E-04 1.7939E-01 2.1314E-01 3.2161E-04 2.5135E-10 1.1672E-19	P T RHO H A S Z GAME U SPECI E- A A+ A++ A+++	MCVING SHOCK 1.6773E+03 5.731ZE+01 1.4656E+01 3.591TE+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E-01 3.061ZE+01 ES 4.9924E-01 5.661ZE-03 4.9096E-01 4.138ZE-03 1.5405E-09 4.3165E-21 1.4820E-37	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.6780E+80 2.6279E+00 7.1328E-01 4.4739E+00 3.5563E-04 1.4147E-01 2.381E-01 5.9590E-04 5.3291E-10 1.0381E-10
P T RHO H A S Z GAME U SPECIE: E-A A+A+++++A++++ AVI	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01 2.9587E+01 S 4.8826E-01 2.3839E-02 4.8755E-01 3.5474E-04 3.8080E-12 7.2366E-26 4.7669E-45 3.6050E-70	STANDING SHOCK 2.0886E-04 8.4339E-01 1.0357E-02 6.1799E-02 1.1904E-01 1.8595E-00 2.3911E-00 7.0266E-01 4.4640E-00	REFLECTED SHOCK 2.7695E+04 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.088E-01 4.3863E+00 6.0663E-01 5.1853E-04 1.7939E-01 2.1314E-01 3.2161E-04 2.5135E-10 1.1672E-19 1.6406E-32	P T RHO H A S Z GAME U SPECI E- A A+ A++ A+++ AVI	MGVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E-01 3.0612E+01 ES	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.5780E+00 2.6279E+00 7.1328E-01 4.4739E+00 3.5563E-04 1.4147E-01 2.381LE-01 5.9590E-04 5.329LE-10 1.0381E-18 4.2167E-31
P T RHO H A S Z GAME U SPECIE: E — A A + + A + + + A + + + A + + + + A + + + + A + + + + A + + + + A + + + + A + + + + A + + + + A + + + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A +	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 7.6837E-01 2.9587E+01 S	STANDING SHOCK 2.0886E+04 8.4339E+01 1.0357E+02 6.1799E+02 1.1904E+01 1.8595E+00 7.0266E-01 4.4640E+00	REFLECTED SHOCK 2.7695E+34 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 7.0888E+01 4.3863E+00 6.0663E-01 5.1853E-04 1.7939E-01 2.1314E-01 3.2161E-04 2.5135E-10 1.1672E-19	P T RHO H A S Z GAME U SPECI E- A A+ A++ A++ A++ AVI AVI AVI	MGVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+01 1.9970E+00 7.9220E+01 3.0612E+01 ES	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.6780E+80 2.6279E+00 7.1328E-01 4.4739E+00 3.5563E-04 1.4147E-01 2.381E-01 5.9590E-04 5.3291E-10 1.0381E-10
P T RHO H A S Z GAME U SPECIE: E-A A+A+++++A++++ AVI	MOVING SHOCK 1.5601E+03 5.1177E+01 1.5600E+01 3.3283E+02 8.7659E+00 1.7004E+00 1.9541E+00 7.6837E-01 2.9587E+01 S 4.8826E-01 2.3839E-02 4.8755E-01 3.5474E-04 3.8080E-12 7.2366E-26 4.7669E-45 3.6050E-70	STANDING SHOCK 2.0886E-04 8.4339E-01 1.0357E-02 6.1799E-02 1.1904E-01 1.8595E-00 2.3911E-00 7.0266E-01 4.4640E-00	REFLECTED SHOCK 2.7695E+04 8.9764E+01 1.2137E+02 7.1115E+02 1.2719E+01 1.9289E+00 2.5422E+00 7.088E-01 4.3863E+00 6.0663E-01 5.1853E-04 1.7939E-01 2.1314E-01 3.2161E-04 2.5135E-10 1.1672E-19 1.6406E-32	P T RHO H A S Z GAME U SPECI E- A A+ A++ A+++ AVI	MGVING SHOCK 1.6773E+03 5.7312E+01 1.4656E+01 3.5917E+02 9.5219E+00 1.7381E+00 1.9970E+00 7.9220E-01 3.0612E+01 ES	STANDING SHOCK 2.1181E+04 8.6366E+01 9.9251E+01 6.6470E+02 1.2263E+01 1.9062E+00 2.4710E+00 7.0467E-01 4.5276E+00	REFLECTED SHOCK 2.7912E+04 9.2155E+01 1.1525E+02 7.6284E+02 1.3143E+01 1.5780E+00 2.6279E+00 7.1328E-01 4.4739E+00 3.5563E-04 1.4147E-01 2.381LE-01 5.9590E-04 5.329LE-10 1.0381E-18 4.2167E-31

P1 = 5.00E+00 N/SQ-M. US1= 1.08E+04 M/SEC			P1 = 5.00E+00 N/S0-M. US1= 1.15E+04 M/SEC					
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	
Р	1.7385E+03	2.1530E+04	2.8306E+04	P	1.9708E+03	2.4437E+04	3. 2038F+04	
Ŧ	6.0121E+01	8.7472E+01	9.3556E+01	T	6.5682E+01	9.2300E+01	1.0043E+02	
RHO	1.4351E+01	9.7982E+01	1.1324E+02	RHO	1.4330E+01	9.9444E+01	1-1275E+02	
н	3.7274E+02	6.8903E+02	7.9001E+02	H	4.2249E+02	7.8129E+02	8.9531E+02	
A	9.5289E+00	1.2456E+01	1.3380E+01	Δ .	9.8080E+00	1.3252E+01	1.4425E+01	
ŝ	1.7558E+00	1.9293E+00	2.0023E+00	s	1.8160E+00	2.0078E+00	2.0857E+00	
Ž	2.0149E+00	2.5121E+00	2.6718E+00	ž	2.0938E+00	2.6624E+00	2.8294E+00	
GAME	7.4956E-01	7.0613E-01	7.1626E-01	GAME	6.9948E-01	7.1461E-01	7.3229E-01	
U	3-1141E+01	4.5684E+00	4.5287E+00	U	3.3156E+01	4.7852E+00	4.8131E+00	
SPECIÉ	PECIES MOLE FRACTIONS			SPECIES MOLE FRACTIONS				
E	5.0370E-01	6.0193E-01	6.2572E-01	E-	5.22416-01	6.2440E-01	6.4657E-01	
Ā	3.18736-03	5.1325E-04	2.8884E-04	Ā	1.1895E-03	2.7893E-04		,
A+/ ·	4.8253E-01	1.9343E-01	1.2310E-01	Ä+	4.3039E-01	1.2698E-01	6-3240E-02	
A++	1.0586E-02	2.0390E-01	2.5007E-01	Ä++	4.6008E-02	2.4762E-01	2.86916-01	
A+++	1.5783E-08	2.3294E-04	8.25605-04	A+++	7.02355-37	7.2476E-04	3.1700F-03	
A++++	3.1417E-19	1.1389E-10	1.8938E-09	A+++	3.7007E-16	1.3415E-09	3.9135E-08	
AV	1.3293E-34	2.7628E-20	3.4046E-18	ÄV	9.5882E-30	1.7823E-18	5.9611E-16	
IVA	5.2646E-55	1.67986-33	2.4638E-30	. IVA	5.5701E-48	8.7257E-31	5.8672E-27	٠
IIVA	1.6901E-83	5.7734E-52	2.53745-47	I I VA	1.50945-73	5.15C0E-48	2.0619E-42	
IIIVA	0.	9.1223E-75	2.06348-68	IIIVA	0.	2.2320E-69	1.0242E-61	
	•							
P1 = !	5.00E+00 N/SQ-M	. US1= 1.10E+	04 M/SEC	P1 = 5.	.00E+00 N/SQ-M	• US1= 1.20E+0	A M/SEC	
-		•			•••		,	
-	MOVING SHOCK		REFLECTED SHOCK			STANDING SHOCK	REFLECTED SHOCK	
Ρ.	1.8024E+03	2.2176E+04	2.91115+04	Ρ .	2.1488E+03	2.7161E+04	3.56855+04	
T	6.2184E+01	8.8715E+01	9.5205E+01	Ţ	6.8154E+01	9.6686E+01	1.0736E+02	,
RHO	1.4242E+01	5.7864E+01	1.1255E+02	RHO	1.4611E+01	1.0139E+02	1.1329E+02	
н	3.8661E+02	7.1443E+0Z	8.1867E+02	н	4.6002E+32	8.5180E+02	9.7802E+02	
A	9.5683E+00	1.2666E+01	1.3646F+01	A	1.0094E+01	1.3933E+01	1.5261E+01	
S	1.7730E+00	1.9520E+00	2.0263E+00	3	1.8583E+00	2.0632E+00	2.1441E+00	
Z	2.0352E+00	2.5543E+00	2.7167E+00	Z	2.1579E+00	2.7706E+00	2-9341E+00	
GAME	7.2342E-01	7.0799E-01	7.1999E-01	GAME	6-9279E-01	7.2470E-01	7.3932F-01	
U	3.1699E+01	4.6202E+03	4.5963E+00	U	3.4646E+01	4.9999E+00	5.1038E+00	
SPÉC LES	·	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS		
E	5.0865E-01.	6.0850E-01	6.3191E-01	E-	5.3659E-01	6.3907E-01	6.5919E-01	
A	2.1638E-03	4.3662E-04	2.3044E-04		8.0652E-04	1.5947E-04	4.7152F-05	
A +	4.6973E-01	1.7395E-01	1.0499E-01	A +	3.8862E-01	8.4238E-02	3.2093F-02	
A++	1.9460E-02	2.1680E-01	2.61706-01	A ++ :	7.3983E-02	2.7477E-01	2.9893E-01	
A+++	7.3236E-38	3.1943E-04	1.17375-03	A +++ ·	2.6943E-06	1.76225-03	9.7416E-03	
A ++++	5.3330E-18	2.2365E-10	4.1272E-09	A++++	4.8957E-15	9.8362E-09	5.3768E-07	-
AV	1.1396E-32	8.5830E-20	1.2779E-17	AV	6.0327E-28	5.3389E-17	5.4644E-14	•
AVI	3.1795E-52	9.1641E-33	1.8035E-29	IVA	2.26255-45	1.4640E-28	5.4519E-24	
AVII	1.4056E-79	6.8071E-51	4.6440E-46	IJVA	6.3940E-7C	8.9376E-45	4.3206E-38	
IIIVA	0.	2.6596E-73	1.1328E-66	111VA	0.	5.8276E-65	8.0523E-56	,

p, = 5 N/m²

P1 ≥	5.00E+00 N/SO-M	. US1= 1.25E+0	4 M/SEC	P1 = 5	.00E+00 N/S0-M	• US1= 1.35E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	2.3352E+03	3.0101E+04	3.9717E+04	ρ	2.7314E+03	3.6489E+04	4.8442E+04
,Ť	7.0248E+01	1.0225E+02	1.1483E+02	Ť	7.3998E+01	1.1539E+02	1.2618E+02
RHO	1.4930E+01	1.0245E+02	1.1409E+02	RHO	1.5552E+01	1.0364E+02	1.19095+02
н	4.9917E+02	9.2540E+02	1.0652E+03	H	5.8227E+02	1.0816E+03	1.2470E+03
A .	1.0393E+01	1.4713E+01	1.5911E+01	, A	1.1018E+01	1.5967E+01	1.70335+01
Š	1.9014E+00	2.1179E+00	2.20286+00	Š	1.9897E+00	2.2236E+00	2.3126E+00
ž		2.8735E+00	3.03176+00	i	2.3734E+00	3.0514E+00	3.2236E+00
GAME.	2.2266E+00 6.9062E-01	7.3675E-01	7.2724E-01	GAME	6.9123E-01	7.2410E-01	7.1327E-01
U	3.6146E+01	5.2755E+00	5.4157E+00	U	3.9150E+01	5.8840E+00	5.8942E+00
• , ,	3802402102	3021330100	30.123.2.00		3.71702.01	J. 0040C.00	2407421.00
			•				
SPECI	ES	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	5.5088E-01	6.5199E-01	6.70156-01	£- `	5.7867E-01	6.7228E-01	6.8979E-01
A 2	5.8603E-04	7.6568E-05	1.8866E-05	Α .	3.3015E-04	1.4601E-05	5.4538E-06
A + '	3.4620E-01	4.8675E-02	1.57246-02	Α+	2.6336E-01	1.3511E-02	5.6302E-03
A++	1.0233E-01	2.9447E-01	2.87906-01	A++	1.5760E-01	2.8380E-01	2.2967E-01
A+++	7.3013E-06	4.7916E-03	2.6201E-02	A+++	3.3423E-05	3.0379E-02	7.4805E-02
A++++	3.4995E-14	9.7751E-08	5.97746-06	A++++	7.69935-13	8.3781E-06	1.0164E-04
AV	1.50946-26	2.7487E-15	3.66756-12	AV	2.4725E-24	6.3817E-12	6.0800E-10
AVI	2.7633E-43	5.6095E-26	3.2814E-21	ÄVI	5.3283E-40	7.2894E-21	
IIVA	8.4664E-67	5.1149E-41	4.8869E-34	AVII	4.80435-62	1.4595E-33	5.5503E-29
AVIII	0.40042 01	7.6263E-60	2.7429€-50	IIIVA	0.	1.1395E-49	2.4185E-43
					•		
					•		
 . D1	5.00E+00 N/SO-M	. US1= 1.30E+0	4 M/SEC		5.00E+00 N/SQ-M	. US1= 1.40E+0	4 M/SEC
	STORETON NYSO H	• 031- 1.500.	4 17 320	71	7. OUC 7 OO 117 34-11	• 031- 1840E40	4 N/3EC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	2.5295E+03	3.3202E+04	4.3991E+04	Р	2.9409E+03	3.9985E+04	5.3076E+04
T	7.2160E+01	1.0896E+02	1.2098E+02	T	7.5812E+01	1.2083E+02	1.3096E+02
RHO	1.5250E+01	1.0276E+02	1.1631E+02	RHO	1.5835E+01	1.0542E+02	1.2193E+02
н	5.3992E+02	1.0020E+03	1.1550E+03	н	6.2621E+02	1.1645E+03	1.3419E+03
A	1.0701E+01	1.5430E+01	1.6469E+01	· A	1.1344E+01	1.6476E+01	1.7618E+01
S	1.9452E+00	2.1714E+00	2.2584E+00	ŝ	2.0342E+00	2.2751E+00	2.3664E+00
Z	2.2986E+00	2.9655E+00	3.1265E+00	z	2-4498E+00	3.1391E+00	3.3239E+00
GAME	6.9037E-01	7.3684E-01	7.1706E-01	GAME	6.9292E-01	7.1568E-01	7.13085-01
υ, ΄	3.7649E+01	5.5953F+00	5.6799E+00	Ü	4.0648E+01	6.1176E+00	6.0858E+00
				,			
SPECI	ES ,	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	5.64955-01	6.6279E-01	6.80156-01	E-	5.9180E-01	6.8144E-01	6.99156-01
Ā	4.3839E-04	3.1990E-05	5.4644E-06	Ä	2.4782E-04	7.8950E-06	3.3158E-06
Ä+	3.0430E-01	2.5042E-02	8.96566-03	Ä÷	2.2416E-01	8.1647E-03	3.6692E-03
Ä++	1.30308-01	2.9866F-01	2.6146E-01	Ä++	1.8373F-01	2.5792E-01	1.9630E-01
A+++	1.6455E-05	1.3477E-02	4.9379E-02	A+++	6.3415E-05	5.2432E-02	1.0061E-01
A++++		2007115-05					
		1 - 1 2 5 2F - 06	3.11576-05	Δ++++		3.53/OF-05	7.544/F=D4
	1.7900E-13	1.1252E-G6	3.1157E-05	A++++	2.9438E-12 2.3115E-23	3.5370E-05 8.4195E-11	2.5997E-04 3.5507E-09
AV	1.7900E-13 2.1790E-25	1.8836E-13	6.9826E-11 .	AV	2.3115E-23	8.4195E-11	3.5507E-09
AVI	1.7900E-13 2.1790E-25 1.3895E-41	1.8836E-13 3.3818E-23	6.9826E-11 3.0547E-19	AV AVI	2.3115E-23 1.4033E-30	8.4195E-11 3.8855E-19	3.5507E-09 1.4403E-16
AV	1.7900E-13 2.1790E-25	1.8836E-13	6.9826E-11 .	AV	2.3115E-23	8.4195E-11	3.5507E-09

TARIF | L - Continued

p, = 5 N/m²

P1 = 5	M-02+400 N/SQ-M	. US1= 1.45E+0	14 M/SEC		P1 = 5	.00E+00 N/SQ-M	• US1= 1.55E+0	04 M/SEC
							,	
	MCVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			NOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.1577E+03	4.3558E+04	5.7746F+04		P	3.6125E+03	5.0806E+04	6.7192F+04
T	7.7729E+01	1.2557E+02	1.3562E+02		T	8-2347E+01	1.3424E+02	1.4552E+02
RHO	1.6055E+01	1.0737E+02	1.2422E+02		RHO	1.6339E+01	1.1057E+02	1.2687E+02
H ·	6.7174E+02	1.2504E+03	1.4399E+03			7.6756E+02	1.4307E+03	1.6460E+03
					A			
A	1.1696E+01	1.7001E+01	1.8233E+01			1.2482E+01	1.8115E+01	
S	2.0806E+00	2.3266E+CO	2.4208E+09		s ·	2.1739E+00	2.4303E+00	2.5307E+00
Z	2.5304E+00	3.2307E+00	3.4275E+00		Z	2.6947E+00	3.4230E+00	3.6395F+00
GAME	6.9553E-01	7.1247E-01	7.1512E-01		GAME	7.0470E-01	7.1413E-01	7.2410E-01
U	4.2141E+01	6.3116E+00	6.2711E+00		U.	4.5101E+31	6.6752E+00	6.6668E+00
				•		· .		
SPECIES		- MOLE FRACTIONS			SPECIES		- MOLE FRACTIONS	
Ę-	6.0481E-01	6.9047E-31	7.08246-01		E-	6.28908-01	7.0786E-01	7.2524E-01
A	1.8054E-04	4.7090E-06	2.0149F-06		A	8.4481E-05	1.8222E-06	6.5434E-07
A+	1.8534E-01	5.2806E-03	2.3889E-03 .		A+ -	- 1.1354E-01	2.3395E-03	9.1800E-04
A++	2.0956E-01	2.2763E-01	1.62826-01		A++	2.57055-01	1.6443E-01	9.9685E-02
A+++	1.1873E-04	7.6503E-02	1.2596E-01		A+++	4.1933E-04	1.2483E-01	1.7168E-01
A++++	1-12176-11	1.0460E-04	5.8421E-04		A++++ ' '	1.7835E-1C	5.4037E-04	2.4802E-03
AV	2.18416-22	6.14685-10	1.6917E-08		AV	2.36745-20	1.3916E-08	3.0785E-07
ÃV I	4.2646E-37	8.6203E-18	1.7367E-15		IVA		1.2067E-15	
AVII	7.6855E-58	4.9220E-29	1.4478E-25		IIVA	2.18966-53	7.7777E-26	1.6992E-22
IIIVA	2.1330E-83	1.9074E-43	1.31238-38		AVIII	2.57726-77	5.1223E-39	2.4666E-34
		•				•		
			• •					
P1 = 5	.00E+00 N/SO-M	. US1='1.50E+0	4 M/SFC		P1 = 5	.00E+00 N/SO-M	. US1= 1.60E+0	4 M/SEC
							•	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	3.3817E+03	4.72118+04	6.25056+04		P	3.8496E+03	5.4292E+04	7.1770E+04
T	7.9760E+01	1.2997E+02	1.4041E+02		T	8.4692E+01	1.3856E+02	1.5116E+02
RHO	1.6234E+01	1.0923E+02	1.2599F+02		RHO	1.6374E+01	1.1125E+02	1.2678F+32
H	7.1886E+02	· 1.3392E+03	1.5412E+03		H	8.1782E+02	1.5247E+03	1.7544E+03
Ä	1.2069E+01	1.7547E+01	1.8985E+01		Ä	1.2944E+01	1.8711E+01	
Š	2.1268E+00	2.3783E+00	2.4755E+00		ŝ			2.0327E+01
ž	2.6117E+00				ž	2.2202E+00	2.4826E+00	2.5861E+00
		3.3256E+00	3.5331E+00		-	2.7759E+00	3.5218E+00	3.7449E+00
GAME	6.9925E-01	7.1232E-01	7.1888E-01		GAME	7.1272E-01	7.1745E-01	7.2993E-01
U	4.36265+01	6.4946E+03	6.4624E+30		U	4.6561E+01	6.8634E+00	6.8915E+00
SPECIES		- MOLE FRACTIONS			SPECIES		- MOLE FRACTIONS	
SPECIES			,		3FEG 1E3		- MOLE FRACTIONS	
E	6.17105-01	6:9930E-01	7.1696E-01		E-	6.39765-01	7.1606E-01	7.3297E-01
A	1.2739E-04	2.92828-06	1.1863E-06		A	5.16825-05	1.1038E-06	3.29316-07
A +	1.49655-01	3.5145E-03	1.5175E-03		A+	8.1453F-02	1.5262E-03	5.1827E-04
A++ .	2.3389E-01	1.9601E-C1	1.3033E-Q1		A++	2.7790E-01	1.3380E-01	7.2055E-02
A+++	2.19778-04	1.0092E-01	1.4997E-01		A+++	8.3868E-04	1.4754E-G1	1.8947E-01
A++++		2.5217E-04			A++++	8.4691E-10		
AV	4.2732E-11 .2.0872F-21	3.2104E-09	1.2232E-03 7.3083E-08	•	AV		1.0823E-03	4.97926-03
AVI						3.3654E-19	5.4746E-08	1.32426-06
	1.25026-35	1.16755-16	1.83616-14		AVI	2.628E-32	1.0913E-14	2.0971E-12
IIVA	1.01328-55	2.3736E-27	4.9995E-24		IIVA	7.1697E-51	2.1141E-24	6.3583E-21
IIIVA	1.44245-80	4.35645-41	1.8135E-36		AVITI'	6.61985-74	5.0471E-37	3.8643E-32

	PI = 5.00E+00 N/SU-M. USI: 1.75E+04 M/SEC
•	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 4.0924E+03 5.7408E+04 7.5897E+04	P 4.5935E+03 6.2366E+04 8.2594E+04
T 8:8026E+01 1.4304E+02 1.5734E+02	
RHO 1.6202E+01 1.1085E+02 1.2539E+02	
H 1.8658E+03	H 9.7786E+02 1.8192E+03 2.0969E+03
A f. 16 70 70 11.3497E+01 11.9337E+01 2.1076E+01	A 1.4604E+01 2.0679E+01 2.2370E+01
S' 2.2667F+00 2.5351E+00 2.6420E+00	S 2.3574E+00 2.6420E+00 2.7545E+00
Z 2.8554E+00 3.6204E+00 3.8470E+00	Z 2.9930E+00 3.8136E+00 4.0403E+00
GAME 7.2475E-01 7.2203E-01 7.3384E-01	GAME 7.3192E-01 7.3203E-01 7.2823E-01
U 4.7998E+01 7.0635E+00 7.1318E+00	U 5.0798E+01 7.5119E+00 7.6438E+00
SPECIES	SPECIES MOLE FRACTIONS
The control of the co	
E- 6.4979F-01 7.2379E-01 7.4006E-01	E- 6.6588E-01 7.3778E-01 7.5250E-01
A 2.7349E-05 6.3486E-07 1.5006E-07	A 4.8333E-06 1.6331E-07 2.8530E-08
A+ 5.2454E-02 9.5930E-04 2.7206E-04	A+ 1.5072E-02 3.1446E-04 7.0873E-05
A++ 2.9585E-01 1.0501E-01 4.9076E-02	A++ 3.0631F-01 5.5756E-02 2.0905E-02
A+++ 1.8806E-03 1.6816E-01 2.0076E-01	A+++ 1.2731E-02 1.9863E-01 1.9558E-01
A++++ 5.3659E-09 2.0842E-03 9.8342E-03	A++++ 14.8235E-07 7.5100E-03 3.0869E-02
AV 7.9571E-18 2.0570E-07 5.7593E-06	AV 1.8580E-14 3.0380E-C6 7.9135E-05
AVI 3.1128E-30 9.3343E-14 2.4080E-11	AVI 3.7902E-25 7.7745E-12 2.0288E-09
AVII 7.6429E-48 5.3267E-23 2.5640E-19	AVII 1.8874E-40 4.1921E-20 2.2020E-16
AVIII 9.3488E-7C -4.4968E-35 6.8173E-30	AVIII 1.0665E-59 4.8885E-31 8.8811E-26
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and the second s	51 - 5 005 00 Mins W
P1 = 5.00E+00 N/SQ-M. US1= 1.70E+04 M/SEC	P1 = 5.00E+00 N/SO-M. US1= 1.80E+04 M/SEC
• •	
HOUTHS, SHOW , STANDING CHOSE DESIGNATION CHOSE	MOVING SHOCK STANDING SHOCK DESIGNED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 4.3400E+03 5.9995E+04 7.9385E+04	P 4.8565E+03 6.5240E+04 8.6525E+04
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02	P 4.8565E+03 6.5240E+04 8.6525E+04 T 1.018LE+02 1.5909E+02 1.7597E+02
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02 RHO 1.6046E+01 1.0904E+02 1.2287E+02	P 4.8565E+03 6.5240E+04 8.6525E+04 T 1.0181E+02 1.5909E+02 1.7597E+02 RHO 1.5615E+01 1.0499E+02 1.1892E+02
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2398E+01 1.4792E+02 1.6379E+02	P 4.8565E+03 6.5240E+04 8.6525E+04 T 1.0181E+02 1.5909E+02 1.7597E+02 RHO 1.5615E+01 1.0499E+02 1.1892E+02 H 1.0344E+03 1.9230E+03 2.2176E+03
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02 RHO 1.6046E+01 1.0904E+02 1.2287E+02 H 9.2297E+02 1.7189E+03 1.9801E+03 A 1.4119E+01 2.0006E+01 2.1760E+01	P 4.8565E+03 6.5240E+04 8.6525E+04 T 1.0181E+02 1.5909E+02 1.7597E+02 RHO 1.5615E+01 1.0499E+02 1.1892E+02 H 1.0344E+03 1.9230E+03 2.2176E+03 A 1.4928E+01 2.1344E+01 2.2952E+01
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02 1.287E+02 1.287E+02 1.2287E+02 1.7189E+03 1.9801E+03 4 1.4119E+01 2.0006E+01 2.1760E+01 S 2.3126E+00 2.5893E+00 2.6982E+00	P 4.8565E+03 6.5240E+04 8.6525E+04 T 1.0181E+02 1.5909E+02 1.7597E+02 RHO 1.5615E+01 1.0499E+02 1.1892E+02 H 1.0344E+03 1.9230E+03 2.2176E+03 A 1.4928E+01 2.1344E+01 2.2952E+01 S 2.4012E+00 2.6948E+00 2.8087E+00
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02 RHO 1.6046E+01 1.0904E+02 1.2287E+02 H 9.2297E+02 1.7189E+03 1.9801E+03 A 1.4119E+01 2.0006E+01 2.1760E+01	P 4.8565E+03 6.5240E+04 8.6525E+04 T 1.0181E+02 1.5909E+02 1.7597E+02 RHO 1.5615E+01 1.0499E+02 1.1892E+02 H 1.0344E+03 1.9230E+03 2.2176E+03 A 1.4928E+01 2.1344E+01 2.2952E+01
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2398E+01 1.4792E+02 1.6379E+02 RHO 1.6046E+01 1.0904E+02 1.2287E+02 H 9.2297E+02 1.7189E+03 1.9801E+03 A 1.4119E+01 2.0006E+01 2.1760E+01 S 2.3126E+00 2.5893E+00 2.6982E+00 Z 2.9285E+00 3.7196E+00 3.9448E+00	P 4.8565E+03 6.5240E+04 8.6525E+04 T 1.0181E+02 1.5909E+02 1.7597E+02 RHO 1.5615E+01 1.0499E+02 1.1892E+02 H 1.0344E+03 1.9230E+03 2.2176E+03 A 1.4928E+01 2.1344E+01 2.2952E+01 S 2.4012E+00 2.6948E+00 2.8087E+00
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02	P
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2398E+01 1.4792E+02 1.6379E+02 RHO 1.6046E+01 1.0904E+02 1.2287E+02 H 9.2297E+02 1.7189E+03 1.9801E+03 A 1.4119E+01 2.0006E+01 2.1760E+01 S 2.3126E+00 2.5893E+00 2.6982E+00 Z 2.9285E+00 3.7196E+00 3.9448E+00	P
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02	P
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02 RH0 1.6046E+01 1.0904E+02 1.2287E+02 H 9.2297E+02 1.7189E+03 1.9801E+03 A 1.4119E+01 2.0006E+01 2.1760E+01 S 2.3126E+00 2.5893E+00 2.6982E+00 Z 2.9285E+00 3.7196E+00 3.9448E+00 GAME 7.3707E-01 7.22830E+00 7.3924E+00	P
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02	P
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02 RHO 1.6046E+01 1.0904E+02 1.2287E+02 H 9.2297E+02 1.7189E+03 1.9801E+03 A 1.4119E+01 2.0006E+01 2.1760E+01 S 2.3126E+00 2.58939E+00 2.6982E+00 Z 2.9285E+00 3.7196E+00 3.9448E+00 GAME 7.3707E-01 7.2747E-01 7.3281E-01 U 4.9405E+01 7.2830E+00 7.3924E+00 SPECIES	P
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02 RHO 1.6046E+01 1.0904E+02 1.2287E+02 H 9.2297E+02 1.7189E+03 1.9801E+03 A 1.4119E+01 2.0006E+01 2.1760E+01 S 2.3126E+00 2.5893E+00 2.6582E+00 Z 2.9285E+00 3.7196E+00 3.9448E+00 GAME 7.3707E-01 7.274TE-01 7.3281E-01 U 4.9405E+01 7.278E+01 7.3924E+00 SPECIES	P
P 4.3400E+03 5.9995E+04 7.9385E+04 T 9.2358E+01 1.4792E+02 1.6379E+02 RHO 1.6046E+01 1.0904E+02 1.2287E+02 H 9.2297E+02 1.7189E+03 1.9801E+03 A 1.4119E+01 2.0006E+01 2.1760E+01 S 2.3126E+00 2.5893E+00 2.6582E+00 Z 2.9285E+00 3.7196E+00 3.9448E+00 GAME 7.3707E-01 7.2747E-01 7.3281E-01 U 4.9405E+01 7.2830E+00 7.3924E+00 SPECIES	P 4.8565E+03 6.5240E+04 8.6525E+04 T 1.0181E+02 1.5909E+02 1.7597E+02 RHO 1.5615E+01 1.0499E+02 1.1892E+02 H 1.0344E+03 1.9230E+03 2.2176E+03 A 1.4928E+01 2.1344E+01 2.2952E+01 S 2.4012E+00 2.6948E+00 2.8087E+00 I 3.0547E+00 3.9061E+00 4.1346E+00 GAME 7.1656E-01 7.3312E-01 7.2402E-01 U 5.2215E+01 7.7793E+00 7.8834E+00 SPECIES
P	P
P	P
P	P
P	P
P	P
P	P
P	P
P	P
P	P

	. OUE+OI W/20-H	031- 2.000+0	3 11/322	P1 = 1	.00F+01 M/20-W	. US1= 2.40E+0	03 M/SEC
		•	•				
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ .	4.7899E+01	8.4669E+01	2.5554E+02	P	6.9096E+01	1.3484E+02	3.5342F+02
Ţ	1.2892E+01	1.6278E+01	2.6180E+01	` т	1.8168E+01	2.3297E+01	2.9592E+01
RHO	3.7155E+00-	5.2013E+00	9.6822E+00	RHC	3.8029E+00	5.7745E+00	1.1585F+01
н	1.2892E+01	1.6280E+01	2.8378E+01	H	1.8184E+01	: 2.3910E+01	3.8036E+01
	3.5905E+00	4.0322E+00	4.5382E+00	Ā	4.2442F+00	4.5024E+00	4.6617E+00
ŝ .	1.0906E+00	1.0911E+00	1.1022E+00	Š	1.1083E+00	1.1091E+00	1.1212E+00
ž	1.03036+30	1.0000E+00	1.0081E+00	ž	1.0001E+00	1.0023E+00	· 1.0309F+00
GAME	9.9999E-01	9.9878E-01	7.8033E-01	GAME			
U	4.53916+00	3.2309E+00	2.848ZE+00		9.9142E-01	8.6817E-01	7.1238E-01
U	4.53916700	3.23092400	2.84826+00	U	5.4921E+00	3.6036E+00	2.6759E+00
							•
SPECIES		MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	'
E-	4.66C5E-08	6.5346E-06	8.0787E-03	E-	5.8505E-05	2.2900E-03	2.9958E-02
Δ	1-0000E+00	9.9999E-01	5.8384E-01	Ā	9.99885-01	9.9542E-01	5.4008E-01
A+ '	4.66C5E-08	6.5346E-06	8.0787E-03	Ä+	5.8505E-05	2.2900E-03	2.9958E-02
A++	3.6146E-31	1.9769E-24	3.8617E-13	A ++	7.42385-21	3.4089E-15	4.2979E-11
A+++	4.1535E-70	9.3057E-55	1.9267E-32	A+++	7.56478-49		5.9971E-28
A + + + +	0.	0.	2.76495-63	A++++		4.3670E-37	
ÄV	0.	0.	0.		0.	2.7580E-72	5.7073E-55
IVA	0.	0.	o.	· AV	0.	3.	0.
		0.	0.	IVA	0.	0.	o.
AVII	0.			AVII	0.	o.	0.
IIIVA	0.	0.	0.	IIIVA	0.	0.	0.
		•					
							•
				•			
			*				
Pl = l.	00E+01 N/SO-M.	US1= 2.20E+0	3 M/SEC	P1 = 1.	.00E+01 N/SO-M	. US1= 2.60E+0	3 M/SEC :
P1 = 1.	.00E+01 N/SO-M.	US1= 2.20E+0	3 M/SEC	P1 = 1	.00E+01 N/SO-M	• US1= 2.60E+0	3 M/SEC
P1 = 1.				P1 = 1.	•		-
•	MCVING SHCCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MCVING SHCCK 5.8004E+01	STANDING SHOCK 1.0560E+02	REFLECTED SHOCK 3.0259F+02	P .	MOVING SHOCK 8.1378E+01	STANDING SHOCK 1.8110E+02	REFLECTED SHOCK 4.1198F+02
P T	MCVING SHCCK 5.8004E+01 1.5416E+01	STANDING SHOCK 1.0560E+02 1.9664E+01	REFLECTED SHOCK 3.0259F+02 2.8132F+31	р. Т	MOVING SHOCK 8.1378E+01 2.1045F+01	STANDING SHOCK 1.8110E+02 2.6397E+01	REFLECTED SHOCK 4.1198F+02 3.0862E+01
P T RHO	MCVING SHCCK 5.8004E+01 1.5416E+31 3.7626E+00	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00	REFLECTED SHOCK 3.0259F+02 2.8132F+01 1.0576E+01	p . T RHO .	MOVING SHOCK 8.1378E+01 2.1045E+01 3.8644E+00	STANDING SHOCK 1.8110E+02	REFLECTED SHOCK 4.1198F+02
P T RHO H	MCVING SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00 1.9713E+01	REFLECTED SHOCK 3.0259F+02 2.8132F+01 1.0576F+01 3.3033F+01	р. Т	MOVING SHOCK 8.1378E+01 2.1045F+01	STANDING SHOCK 1.8110E+02 2.6397E+01	REFLECTED SHOCK 4.1198F+02 3.0862E+01
P T RHO H A	MCVING SHCCK 5.8004E+01 1.5416E+31 3.7626E+00	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00	REFLECTED SHOCK 3.0259F+02 2.8102F+01 1.0576F+01 3.3033F+01 4.5831F+00	p . T RHO .	MOVING SHOCK 8.1378E+01 2.1045E+01 3.8644E+00	STANDING SHOCK 1.8110E+02 2.6397E+01 6.7875E+00	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01
P T RHO H	MCVING SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00 1.9713E+01	REFLECTED SHOCK 3.0259F+02 2.8132F+01 1.0576F+01 3.3033F+01	р Т R HO Н	MOVING SHOCK 8.1378E+01 2.1045E+01 3.8644E+00 2.1215E+01	STANDING SHCCK 1.8110E+02 2.6397E+01 5.7875E+00 2.9305E+01 4.5027E+00	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00
P T RHO H A S Z	MCVING SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00	REFLECTED SHOCK 3.0259F+02 2.8102F+01 1.0576F+01 3.3033F+01 4.5831F+00	P T RHO H	MOVING SHOCK 8.1378E+01 2.1045E+01 3.8644E+00 2.1215E+01 4.4495E+00	STANDING SHCCK 1.8110E+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.1178E+00	REFLECTED SHOCK 4.1198F-02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00
P T RHO H A S Z	MCVING SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0998E+00	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00	REFLECTED SHOCK 3.0259F+02 2.8102E+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00	P T RHO H A S	MOVING SHOCK 8.1378E+01 2.1045E+01 3.8644E+00 2.1215E+01 4.4495E+00 1.1163E+00	STANDING SHOCK 1.81105+02 2.6397E+01 6.78755+00 2.9305E+01 4.5027E+00 1.1178E+00 1.0108E+00	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00
P T RHO H A S	MCVING SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0998E+00 1.0000E+00	STANDING SHOCK 1.0550E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00	REFLECTED SHOCK 3.0259F+02 2.8132F+01 1.0576F+01 3.3033F+01 4.5831F+00 1.114F+00 1.0181F+00	P T RHO H A S Z	MOVING SHOCK 8.1378E+01 2.1045E+01 3.8644E+00 2.1215E+01 4.4495E+00 1.1163E+00 1.0006E+00	STANDING SHCCK 1.8110E+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.1178E+00	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00
P T RHO H A S Z GAME	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.925E+00 1.0998E+00 1.0000E+00 9.9946E-01	STANDING SHOCK 1.05602E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 1.0002E+00 5.7751E-01	REFLECTED SHOCK 3.0259F+02 2.81.02F+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01	P T RHO H A S Z GAME	MOVING SHOCK 8.1378F-01 2.1045F-01 3.8644E-00 2.1215F-01 4.4495F-00 1.1163E-00 1.0006F-00 9.4017F-01	STANDING SHCCK 1.8110E+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.1178E+00 1.0108E+00 7.5986E-01	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01
P T RHO H A S Z GAME U	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0998E+00 1.0000E+00 9.9946E-01 5.0155E+00	STANDING SHOCK 1.05602E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.384E+00 1.1003E+00 1.0002E+00 5.7751E-01 3.5022E+00	REFLECTED SHOCK 3.0259F+02 2.881.02F+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608E+00	P T RHO H A S Z GAME U	MOVING SHOCK 8.1378F-01 2.1045F-01 3.8644E-00 2.1215F-01 4.4495F-00 1.1163E-00 1.0006F-00 9.4017F-01	STANDING SHOCK 1.8110E+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.1178E+00 1.0108E+00 7.5986E+01 3.3968E+00	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00
P T RHO H A S Z GAME	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0998E+00 1.0000E+00 9.9946E-01 5.0155E+00	STANDING SHOCK 1.05602E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 1.0002E+00 5.7751E-01	REFLECTED SHOCK 3.0259F+02 2.881.02F+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608E+00	P T RHO H A S Z GAME	MOVING SHOCK 8.1378F-01 2.1045F-01 3.8644E-00 2.1215F-01 4.4495F-00 1.1163E-00 1.0006F-00 9.4017F-01	STANDING SHCCK 1.8110E+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.1178E+00 1.0108E+00 7.5986E-01	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00
P T RHO H A S Z GAME U SPECIES E-	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0998E+00 1.0000E+00 9.9946E-01 5.0155E+00	STANDING SHOCK 1.05602E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 1.0002E+00 5.7751E-01 3.5022E+00 MOLE FRACTIONS 1.8725E-04	REFLECTED SHOCK 3.0259F+02 2.881.02F+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608E+00	P T RHO H A S S C GAME U SPECIES	MOVING SHOCK 8.1 378F+01 2.1045F+01 3.8644E+00 2.1215E+01 4.4495E+00 1.1163E+00 1.0006E+00 9.4017E-01 5.9841E+00	STANDING SHOCK 1.8110E+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.1178E+00 1.0108E+00 7.5986E-01 3.3968E+00	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00
P T RHO H A S Z GAME U SPECIES E A	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0908E+00 1.0000E+00 9.9946E-01 5.0155E+00	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 1.0002E+00 5.7751E-01 3.5022E+00 MOLE FRACTICNS 1.8725E-G4 9.9963E-G4	REFLECTED SHOCK 3.0259F+02 2.8102E+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608F+00	P. T. RHO. H. A. S. Z. GAME U SPECIES E- A.	MOVING SHOCK 8.1378E+01 2.1045E+01 3.8644E+00 2.121EE+01 4.4495E+00 1.1163E+00 1.0006E+00 9.4017E-01 5.9841E+00	STANDING SHCCK 1.81106+02 2.63978+01 5.78755+00 2.9305E+01 4.5027E+00 1.0108E+00 7.5986E-01 3.3968E+00	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00
P T RHO H A S Z GAME U SPECIES E-A A+	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0998E+00 1.0000E+00 9.9446E-01 5.0155E+00 	STANDING SHOCK 1.05652E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 1.0002E+00 5.7751E-01 3.5022E+00 MOLE FRACTICNS 1.8725E-64 9.9963E-01 1.8725E-01	REFLECTED SHOCK 3.0259F+02 2.81J2F+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608E+00	P T RHO H A S G G G G G B E A A+	MOVING SHOCK 8.1 378F+01 2.1045F+01 3.8644E+00 2.1215E+01 4.4495E+00 1.1163E+00 1.0006E+00 9.4017E-01 5.9841E+00	STANDING SHOCK 1.8110E+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.1178E+00 1.0108E+00 7.5986E-01 3.3968E+00	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00
P T RHO H A S Z GAME U SPECIES E A	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0908E+00 1.0000E+00 9.9946E-01 5.0155E+00	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 1.0002E+00 5.7751E-01 3.5022E+00 MOLE FRACTICNS 1.8725E-G4 9.9963E-G4	REFLECTED SHOCK 3.0259F+02 2.8102E+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608F+00	P. T. RHO. H. A. S. Z. GAME U SPECIES E- A.	MOVING SHOCK 8.1378E+01 2.1045E+01 3.8644E+00 2.121EE+01 4.4495E+00 1.1163E+00 1.0006E+00 9.4017E-01 5.9841E+00	STANDING SHCCK 1.8110E+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.1178E+00 1.0108E+00 7.5986E-01 3.3968E+00 MOLE FRACTIONS 1.0648E-02 9.7870E-01	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00
P T RHO H A S Z GAME U SPECIES E-A A+	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0998E+00 1.0000E+00 9.9446E-01 5.0155E+00 	STANDING SHOCK 1.05652E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 1.0002E+00 5.7751E-01 3.5022E+00 MOLE FRACTICNS 1.8725E-64 9.9963E-01 1.8725E-01	REFLECTED SHOCK 3.0259F+02 2.81J2F+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608E+00	P T RHO H A S G G G G G B E A A+	MOVING SHOCK 8.1 378*-01 2.1045*-01 3.8644E+00 2.1215E+01 4.4495E+00 1.0006E+00 9.4017E-01 5.9841E+00	STANDING SHCCK 1.8110E+02 2.6397E+01 6.7815E+00 2.9305E+01 4.5027E+00 1.1178E+00 1.0108E+00 7.5986E-01 3.3968E+00 - MOLE FRACTIONS 1.0648E-02 9.7870E-01 1.0648E-02	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00 4.4007E-02 9.1199E-01 4.4007E-02 1.8257E-10
P T RHO H A S C GAME U SPECIES E-A A+A++	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0998E+00 1.0000E+00 9.9946E-01 5.0155E+00 2.6043E-06 9.9999E-01 2.6043E-06 1.7275E-25	STANDING SHOCK 1.05602+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 1.0002E+00 5.7751E-01 3.5022E+00 MOLE FRACTIONS 1.8725E-04 9.9962E-01 1.8725E-04 5.8811E-19	REFLECTED SHOCK 3.0259F+02 2.881.02F+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608F+00 1.7811E-02 9.6438E-01 1.7811E-02 6.4164E-12	P T RHO H A S Z GAME U SPECIES E- A A + A + +	MOVING SHOCK 8.1 378 F + 01 2.1045 F + 01 3.8644 E + 00 2.1215 E + 01 4.4495 E + 00 1.1163 E + 00 1.0006 E + 07 9.4017 E - 01 5.9841 E + 00 6.4179 F - C4 9.9872 E - 01 6.4179 E - 04 3.3069 E - 17	STANDING SHOCK 1.8110E+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.1178E+00 1.0108E+00 7.5986E-01 3.3968E+00 - MOLE FRACTIONS 1.0648E-02 9.7870E-01 1.0648E-02 7.7576E-13	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00 4.4007E-02 9.1199E-01 4.4007E-02 1.8257E-10 1.4936E-26
P T RHO H A S Z GAME U SPECIES E-A A+++++	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0908E+00 1.0000E+00 9.9946E-01 5.0155E+00 2.6043E-06 9.999F-01 2.6043E-06 1.7275E-25 1.4374E-59	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 5.7751E-01 3.5022E+00 MOLE FRACTICNS 1.8725E-04 9.9962E-01 1.8725E-04 5.8811E-19 3.3132E-45	REFLECTED SHOCK 3.0259F+02 2.8102E+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608F+00 1.7811E-02 9.6438E-01 1.7811E-02 6.4164E-12 8.4106E-30	P T RHO H A S Z GAME U SPECIES E - A A + A + + A + + + A + + + + + + + +	MOVING SHOCK 8.1 378 + 01 2.1045 + 01 3.8644 E + 00 2.1215 + 01 4.4495 E + 00 1.006 E + 07 9.4017 E - 01 5.984 E + 00 6.4179 E - C4 9.987 Z E - 01 6.4179 E - 01 6.4179 E - 01 5.1892 E - 80	STANDING SHCCK 1.8110E+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.1178E+00 1.0108E+00 7.5986E-01 3.3968E+00 - MOLE FRACTIONS 1.0648E-02 9.7870E-01 1.0648E-02 7.7576E-13 6.0791E-32 1.4730F-62	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00 4.4007E-02 9.1199E-01 4.4007E-02 1.8257E-10 1.4936E-26 2.2561E-52
P T RHO H A S Z GAME U SPECIES E - A A + + A + + + A + + + A + + + A + + + A + + + A + + + A + + A + + A + + A + + A +	MCVING SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0908E+00 1.0000E+00 9.9946E-01 5.0155E+00 	STANDING SHOCK 1.0562E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 1.0002E+00 5.7751E-01 3.5022E+00 MOLE FRACTICNS 1.8725E-04 9.9963F-01 1.8725E-04 5.8811E-19 3.3132E-45 5.5193E-87	REFLECTED SHOCK 3.0259F+02 2.81J2F+01 1.0576E+01 3.3033F+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608F+00 1.7811E-02 5.6438E-01 1.781E-02 6.4164E-12 8.4106E-30 3.9715E-59	P T RHO H A S Z GAME U SPECIES E - A A + A + + A + + + A + + + A + + + A V	MOVING SHOCK 8.1378E+01 2.1045E+01 3.8644E+00 2.121EE+01 4.4495E+00 1.1066E+00 9.4017E-01 5.9841E+00	STANDING SHCCK 1.8110F+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.0108E+00 7.5986E-01 3.3968E+00 - MGLE FRACTIONS 1.0648E-02 9.7870E-01 1.0648E-02 7.7576E-13 6.0791E-32 1.4730F-62 0.	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00
P T RHO H A S Z GAME U SPECIES E-A A++++++++++++++++++++++++++++++++++	MCV1NG SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+31 3.9252E+00 1.0908E+00 1.0000E+00 9.9946E-01 5.0155E+00	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 1.0002E+00 5.7751E-01 3.5022E+00 MOLE FRACTICNS 1.8725E-G4 9.9963E-01 1.8725E-04 5.8811E-19 3.3132E-45 5.5193E-87 0.	REFLECTED SHOCK 3.0259F+02 2.8102E+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608F+00 1.7811E-02 5.6438E-01 1.7811E-02 6.4164E-12 8.4104E-30 3.9715E-59 0.	P T RHO H A S Z GAME U SPECIES E- A A + A + + + A + + + + A V A V I	MOVING SHOCK 8.1378+01 2.1045+01 3.8644E+00 2.1215E+01 4.4495E+00 1.1163E+00 1.0006E+00 9.4017E-01 5.984LE+00	STANDING SHCCK 1.81106+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.0108E+00 1.0108E+00 7.5986E-01 3.3968E+00 MOLE FRACTIONS 1.0648E-02 9.7870E-01 1.0648E-02 7.7576E-13 6.0791E-32 1.4730F-62 0.	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00 4.4007E-02 9.1199E-01 4.4007E-02 1.8257E-10 1.4936E-26 2.2561E-52 6.4170E-87
P T RHO H A S Z GAME U SPECIES E - A A + + A + + + A + + + A + + + A + + + A + + + A + + + A + + A + + A + + A + + A +	MCVING SHCCK 5.8004E+01 1.5416E+01 3.7626E+00 1.5416E+01 3.9252E+00 1.0908E+00 1.0000E+00 9.9946E-01 5.0155E+00 	STANDING SHOCK 1.0560E+02 1.9664E+01 5.3694E+00 1.9713E+01 4.3846E+00 1.1003E+00 5.7751E-01 3.5022E+00 MOLE FRACTICNS 1.8725E-04 9.9962E-01 1.8725E-04 5.8811E-19 3.3132E-45 5.5193E-87 0.	REFLECTED SHOCK 3.0259F+02 2.8132F+01 1.0576E+01 3.3033E+01 4.5831E+00 1.1114F+00 1.0181E+00 7.3414E-01 2.7608F+00 1.7811E-02 5.6438E-01 1.781E-02 6.4164E-12 8.4106E-30 3.9715E-59 0.	P T RHO H A S Z GAME U SPECIES E - A A + A + + A + + + A + + + A + + + A V	MOVING SHOCK 8.1378E+01 2.1045E+01 3.8644E+00 2.121EE+01 4.4495E+00 1.1066E+00 9.4017E-01 5.9841E+00	STANDING SHCCK 1.8110F+02 2.6397E+01 6.7875E+00 2.9305E+01 4.5027E+00 1.0108E+00 7.5986E-01 3.3968E+00 - MGLE FRACTIONS 1.0648E-02 9.7870E-01 1.0648E-02 7.7576E-13 6.0791E-32 1.4730F-62 0.	REFLECTED SHOCK 4.1198F+02 3.0862E+01 1.2762E+01 4.3499E+01 4.7562E+00 1.1318E+00 1.0460E+00 7.0073E-01 2.5937E+00

P1 =	1.00E+01 N/SQ-M	US1= 2.80E+0	3 M/SEC	P1 =	1.00E+01 N/SO-N	. US1= 3.20E+0	3 M/SEC
					•		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MCVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	9.5333E+01	2.4234E+02	4.9111E+02	P	1.3017E+02	4.3163E+02	7.5705E+02
. T	2.3652E+01	2.8601E+01	3.2075E+01	T	2.7230E+01	3.1928E+01	3.4528E+01
RHO	4.0171E+00	8.2661E+00	1.4388E+01	RHO	4.6924E+00	1.2691E+01	1.9737E+01
н	2-45575+01	3.5416E+01	4.5789E+01	н	3.2318E+01	4.9904E+01 -	
A	4.4581E+00	4.5888E+00	4.8665E+00	A	4.4916E+00	4.8544E+00	5.1347E+00
; ·S - ;	1.1240E+00	1.1271E+00	1.1430E+0J	S	1.1399E+00	1.1483E+00	1.1682E+00
Z	1.0034E+00	1.0250E+00	1.0642E+00	ž	1.0188E+00	1.0652E+00	1.1109E+00
GAME	8.3747E-01	7.1825E-01	6.9382E-01	GAME	7.2722E-01	6.9288E-01	6.8735E-01
U .	6.5214E+00	3.1546E+00	2.5430F+00	U	7.8138E+00	2.8807E+00	2.444E+00
•							
SPECIE	s	- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
£-	3.3742E-03	2.44076-02	6.0328E-02	E-	1.8428E-02	6.1194E-02	9.9824E-02
Ā	9.9325E-01	9.5119E-01	8.7934E-01	Ā	9.6314E-01	8.7761E-01	8.0035E-01
A +	3.3742E-03	2.4407E-02	6.0328E-02	Ä+	1.8428E-02	6.11945-02	9.9824E-02
A++	9.8725E-15	1.6430E-11	6.2923E-10	A++	4.0792E-12	6.0709E-10	5.3204E-09
A+++	2.1556E-36	6.1013E-29	2.3956E-25	A+++	2.0683E-30	2.0572E-25	3.2622E-23
A++++	2.0539E-69	7.5648E-57	3.7561E-50	A ++++	1.0284E-59	2.7505E-50	4.6030E-46
AV	0.	0.	9.2761E-84	AV	0.	1.0745E-83	9.7557E-77
AV I	0.	0.	0.	AVI	0.	0.	. 0.
AVII	0.	0.	0.	IIVA	0.	0.	0.
AVIII	0.	· 0.	0.	IIIVA	0.	0.	0.
		*					•
		•					
		•					
		•					
Pl =	1.00E+01 N/SO-M	• US1= 3.00E+0	3 M/SEC	P1 = :	1.00E+01 N/SQ-M	. US1= 3.40E+0	3 M/SEC
P1 =	1.00E+01 N/SQ-M	• US1= 3.00E+0	3 M/SEC	P1 = :	1.00E+01 N/SO-M	• US1= 3.40E+0	3 M/SEC
Pl =				P1 = :		•	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 1.1173E+02	STANDING SHOCK 3.2399E+02	REFLECTED SHOCK 6.C547E+02		MOVING SHOCK 1-5007E+32	STANDING SHOCK 5.6275E+02	REFLECTED SHOCK
P T	MOVING SHOCK 1.1179E+02 2.5685E+01	STANDING SHOCK 3.2399E+02 3.0374E+01	REFLECTED SHOCK 6.0547E+02 3.3304E+01	Т	MOVING SHOCK 1.5007E+02 2.8459E+01	STANDING SHOCK 5.6275E+02 3.3309E+01	REFLECTED SHOCK 9.3966E+02 3.5697E+01
P T RHO	MOVING SHOCK 1-1170E+02 2-5685E+01 4-3076E+00	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01	REFLECTED SHOCK 6.C547E+02 3.3304E+01 1.6741E+01	P T RHO	MOVING SHOCK 1.5007E+02 2.8459E+01 5.1196E+00	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01	REFLECTED SHOCK - 9.3966E+02 3.5697E+01 2.3130E+01
P T RHO H	MOVING SHOCK 1-1170E+02 2-5685E+01 4-3076E+00 2-8274E+01	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.7118E+01	P T RHO H	MOVING SHOCK 1.5007E+02 2.8459E+01 5.1196E+00 3.6619E+01	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01
P T RHO H	MOVING SHOCK 1-1170E+02 2-5685E+01 4-3076E+00 2-8274E+01 4-4501E+00	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00	P T RHO H	MOVING SHOCK 1.5007E+02 2.8459E+01 5.1196E+00 3.6619E+01 4.5579E+00	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00
P T RHO H S	MOVING SHOCK 1-1173E+02 2-5685E+01 4-3076E+00 2-8274E+01 4-4501E+00 1-1318E+00	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.1372E+00	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00	P T RHO H A S	MOVING SHOCK 1.5007E+02 2.8459E+01 5.1196E+00 3.6619E+01 4.5579E+00 1.1485E+00	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00	REFLECTED SHOCK 9.3966e02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.1822E+00
P T RHO H A S	MOVING SHOCK 1.11770E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.1318E+00 1.0396E+00	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.1372E+00	REFLECTED SHOCK 6.C547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00 1.0859E+00	P T RHO H A S S Z	MOVING SHOCK 1-5007E+02 2-8459E+01 5-1196E+00 3-6619E+01 4-5579E+00 1-1485E+00 1-0300E+00	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00	REFLECTED SHOCK 9.3966E02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.182E+00 1.1381E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.1170E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.1318E+00 1.0096E+00 7.6368E-01	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.1372E+00 1.0434E+00 7.0106E-01	REFLECTED SHOCK 6.C547E+02 3.3304E+01 1.6741E+01 5.711E+01 4.9943E+00 1.1551E+00 1.0859E+00 6.8968E-01	P T RHO H S S Z GAME	MOVING SHOCK 1-5007E+02 2-8459E+01 5-1194E+00 3-6619E+01 4-5579E+00 1-1485E+00 1-0300E+00 7-0875E-01	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01	REFLECTED SHOCK 9.3966Fe02 3.5697Ee01 2.3130Fe01 7.4303Ee01 5.2799Ee00 1.182Ee00 1.1381Ee00 6.8620E-01
P T RHO H A S	MOVING SHOCK 1.11770E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.1318E+00 1.0396E+00	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.1372E+00	REFLECTED SHOCK 6.C547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00 1.0859E+00	P T RHO H A S S Z	MOVING SHOCK 1-5007E+02 2-8459E+01 5-1196E+00 3-6619E+01 4-5579E+00 1-1485E+00 1-0300E+00	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00	REFLECTED SHOCK 9.3966E02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.182EE+00 1.1381E+00
P T RHO H S S Z GAME U	MOVING SHOCK 1.1172E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.1318E+00 1.0396E+00 7.6368E-01 7.1429E+00	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.1372E+00 1.0434E+00 7.0106E-01 3.0031E+00	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.711BE+01 4.9943E+00 1.1551E+00 1.0859E+00 6.896BE-01 2.4857E+00	P T RHO H S 2 S 2 GAME U	MOVING SHOCK 1-5007E+02 2-8459E+01 5-1196E+00 3-6619E+01 4-5579E+00 1-1485E+00 1-0300E+00 7-0875E-01 8-4866E+00	STANDING SHOCK 5.6275E+02 3.3309F+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01 2.7878E+00	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.182E+00 1.1381E+00 6.8620E-01 2.4172E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.1172E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.1318E+00 1.0396E+00 7.6368E-01 7.1429E+00	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.1372E+00 1.0434E+00 7.0106E-01	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.711BE+01 4.9943E+00 1.1551E+00 1.0859E+00 6.896BE-01 2.4857E+00	P T RHO H S S Z GAME	MOVING SHOCK 1-5007E+02 2-8459E+01 5-1196E+00 3-6619E+01 4-5579E+00 1-1485E+00 1-0300E+00 7-0875E-01 8-4866E+00	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.1822E+00 1.1381E+00 6.8620E-01 2.4172E+00
P T RHO H S S Z GAME U	MOVING SHOCK 1.1172E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.1318E+00 1.0396E+00 7.6368E-01 7.1429E+00	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.0372E+00 1.0434E+00 7.0106E-01 3.0031E+00	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00 1.0859E+00 6.8968E-01 2.4857E+00	P T RHO H A S Z GAME U	MOVING SHOCK 1-5007E+02 2-8459E+01 5-1196E+00 3-6619E+01 4-5579E+00 1-1485E+00 1-0300E+00 7-0875E-01 8-4866E+00	STANDING SHOCK 5.0275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01 2.7878E+00	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.182E+00 1.1881E+00 6.8620E-01 2.4172E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.1173E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.1318E+00 1.0396E+00 7.6368E-01 7.1429E+00	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.1372E+00 1.0434E+00 7.0106E-01 3.0031E+00	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.711BE+01 4.9943E+00 1.1551E+00 1.0859E+00 6.8968E-01 2.4857E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1-5007E+02 2-8459E+01 5-1196E+00 3-6619E+01 4-5579E+00 1-1485E+00 1-0300E+00 7-0875E-01 8-4866E+00	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01 2.7878E+00	REFLECTED SHOCK 9.3966+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.1822E+00 1.1381E+00 6.8620E-01 2.4172E+00
P T RHO H . S Z GAME U	MOVING SHOCK 1.1170E+02 2.5685E+01 4.3076E+00 2.8276E+00 1.0396E+00 1.0396E+00 7.6368E-01 7.1429E+00	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.0434E+00 7.0106E-01 3.0031E+00 - MOLE FRACTIONS 4.1599E-02 9.1680E-01	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00 1.0859E+00 6.8968E-01 2.4857E+00	P T RHD H A S Z GAME U SPECIES	MOVING SHOCK 1.5007E+02 2.8459E+01 5.1196E+00 3.6619E+01 4.5579E+00 1.1485E+00 1.0300E+00 7.0875E-01 8.4866E+00	STANDING SHOCK 5.6275E+02 3.3309F+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01 2.7878E+00 - MOLE FRACTIONS 8.1906E-02 8.3619E-01	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.1822E+00 1.1381E+00 6.8620E-01 2.4172E+00
PTRHOHASS GAME USPECIE	MOVING SHOCK 1.1173E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.1318E+00 1.0396E+01 7.1429E+00 S 9.5185E-03 9.8096E-01 9.5185F-03	STANDING SHOCK 3.2399±02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.1372E+00 1.0434E+00 7.0106E-01 3.0031E+00 - MOLE FRACTIONS 4.1599E-02 9.1680E-01 4.1599E-02	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00 1.0859E+00 6.8968E-01 2.4857E+00 7.9119E-02 8.4176E-01 7.9119E-02	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 1-5007E+02 2-8459E+01 5-1194E+00 3-6619E+01 4-5579E+00 1-1485E+00 1-0300E+00 7-0875E-01 8-4866E+00	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01 2.7878E+00 - MOLE FRACTIONS 8.1906E-02 8.3619E-01 8.1906E-02 8.360E-02	REFLECTED SHOCK 9.3966Fe02 3.5697Ee01 2.3130Fe01 7.4303Ee01 5.2799Ee00 1.1381Ee00 6.8620E-01 2.4172E+00 1.2132E-01 7.5737E-01 1.2132E-01
P T RHO H A S Z GAME U SPECIE E- A A+ A++	MOVING SHOCK 1.1170E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.0396E+00 7.6368E+01 7.1429E+00 S 9.5185E-03 9.8096E-01 9.5185F-03 3.8432E-13	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.275E+01 4.7136E+00 1.1372E+00 1.0434E+00 7.0106E-01 3.0031E+00 - MOLE FRACTIONS 4.1599E-02 9.1680E-01 4.1599E-02 1.2760E-10	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.711BE+01 4.9943E+00 1.1551E+00 1.0859E+00 6.8968E-01 2.4857E+00 7.9119E-02 8.4176E-01 7.9119E-02	P T RHO H A S Z GAME U SPECIES E- A A+ A+	MOVING SHOCK 1-5007E+02 2-8459E+01 5-1196E+00 3-6619E+01 4-5579E+00 1-1485E+00 1-0300E+00 7-0875E-01 8-4866E+00	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.998SE+00 1.1604E+00 1.0892E+00 6.8877E-01 2.7878E+00 - MOLE FRACTIONS 8.1906E-02 8.3619E-01 8.1906E-02 2.0905E-09	REFLECTED SHOCK 9.3966+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.1822E+00 1.1381E+00 6.8620E-01 2.4172E+00 1.2132E-01 7.5737E-01 1.2132E-01 1.2918E-08
PTTRHOHASSZGAMEU	MOVING SHOCK 1.1170E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.0396E+00 7.6368E-01 7.1429E+00 9.5185E-03 9.8096E-01 9.5185F-03 3.8432E-13 1.1821E-32	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.0434E+00 7.0106E-01 3.0031E+00 - MOLE FRACTIONS 4.1599E-02 9.1680E-01 4.1599E-02 1.2760E-10 6.0867E-27	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00 1.0859E+00 6.8968E-01 2.4857E+00 7.9119E-02 8.4176E-01 7.9119E-02 1.9344E-09 3.1546E-24	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 1.5007E+02 2.8459E+01 5.1196E+00 3.6619E+01 4.5579E+00 1.0300E+00 7.0875E-01 8.4866E+00 2.9098E-02 9.4180E-01 2.9098E-02 2.1557E-11 5.9886E-29	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01 2.7878E+00 - MOLE FRACTIONS 8.1906E-02 8.3619E-01 8.1906E-02 2.0905E-09 3.5572E-24	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.1822E+00 1.1881E+00 6.8620E-01 2.4172E+00 1.2132E-01 7.5737E-01 1.2132E-08 2.5362E-22
P T RHO H A S Z GAME U SPECIE E-A A+A++++	MOVING SHOCK 1.1173E+02 2.5685E+01 4.3076E+03 2.8274E+01 4.4501E+03 1.1318E+03 1.0396E+01 7.1429E+00 S 9.5185E-03 9.8096E-01 9.5185F-03 3.8432E-13 1.1821E-32 7.5462E-64	STANDING SHOCK 3.2399±02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.1372E+00 1.0434E+00 7.0106E-01 3.0031E+00 - MOLE FRACTIONS 4.1599E-02 9.1680E-01 4.1595E-02 1.2760E-10 6.0867E-27 4.0583E-53	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00 1.0859E+00 6.8968E-01 2.4857E+00 7.9119E-02 8.4176E-01 7.9119E-02 1.9344E-09 3.1546E-24 5.4823E-48	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 1-5007E+02 2-8459E+01 5-1194E+00 3-6619E+01 4-5579E+00 1-1485E+00 1-0300E+00 7-0875E-01 8-4866E+00 2-9098E-02 9-4180E-01 2-9098E-02 2-1557E-11 6-9886E-29 3-3305E-57	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 2.7878E+00 - MOLE FRACTIONS 8.1906E-02 8.3619E-01 8.1906E-02 2.0905E-09 3.5572E-24 6.3702E-88	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.182E+00 1.1381E+00 6.8620E-01 2.4172E+00 1.2132E-01 7.5737E-01 1.2132E-01 1.213E-01 2.5362E-22 2.0540E-44
P T RHO H A S Z GAME U SPECIE E-A A+++++++++++++++++++++++++++++++++	MOVING SHOCK 1.1172E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.1318E+00 1.0396E+00 7.6368E-01 7.1429E+00 S 9.5185E-03 9.8096E-01 9.5185F-03 3.8432E-13 1.1821E-32 7.5462E-64 0.	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.7136E+00 1.1372E+00 1.0434E+00 7.0106E-01 3.0031E+00 - MOLE FRACTIONS 4.1599E-02 9.1680E-01 4.1599E-02 1.2760E-10 6.0867E-27 4.0593E-53 4.3481E-88	REFLECTED SHOCK 6.C547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00 1.0859E+00 6.8968E-01 2.4857E+00 7.9119E-02 8.4176E-01 7.9119E-02 1.9344E-09 3.1546E-24 5.4823E-48 7.7445E-80	P T RHD H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 1-5007E+02 2.8459E+01 5.1196E+00 3.6619E+01 4.5579E+00 1.1485E+00 1.0300E+00 7.0875E-01 8.4866E+00 2.9098E-02 9.4180E-01 2.9098E-02 2.1557E-11 6.9886E-29 3.3305E-57	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01 2.7878E+00 - MOLE FRACTIONS 8.1906E-02 8.3619E-01 8.1906E-02 2.0905E-09 3.5572E-24 6.3702E-48 8.8649E-80	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.182E+00 1.1881E+00 6.8620E-01 2.4172E+00 1.2132E-01 7.5737E-01 1.2132E-01 1.2132E-01 2.3362E-22 2.0540E-44 2.3036E-74
P T RHO H A S Z GAME U SPECIE E-A A+++++ A++++ AV I	MOVING SHOCK 1.1170E+002 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.0396E+00 7.6368E-01 7.1429E+00 S 9.5185E-03 9.8096E-01 9.5185F-03 3.8432E-13 1.1821E-32 7.5462E-64 0.	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.2275E+01 4.7136E+00 1.0434E+00 7.0106E-01 3.0031E+00 - MOLE FRACTIONS 4.1599E-02 9.1680E-01 4.1599E-02 1.2760E-10 6.0867E-27 4.0583E-53 4.3481E-88 0.	REFLECTED SHOCK 6.0547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00 6.8959E+00 6.8968E-01 2.4857E+00 7.9119E-02 8.4176E-01 7.9119E-02 1.9344E-09 3.1546E-24 5.4823E-48 7.7445E-80 0.	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 1.5007E+02 2.8459E+01 5.1196E+00 3.6619E+01 4.5579E+00 1.0300E+00 7.0875E-01 8.4866E+00 2.9098E-02 2.157E-11 6.9886E-29 3.3305E-57 0.0	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01 2.7878E+00 - MOLE FRACTIONS 8.1906E-02 8.3619E-01 8.1906E-02 2.0905E-09 3.5572E-24 6.3702E-48 8.8649E-80 0.	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.1822E+00 1.1881E+00 6.8620E-01 2.4172E+00 1.2132E-01 7.5737E-01 1.2132E-01 1.2918E-08 2.5362E-22 2.0540E-44 2.3034E-74 0.
P T RHO H A S Z GAME U SPECIE E-A A+++++++++++++++++++++++++++++++++	MOVING SHOCK 1.1172E+02 2.5685E+01 4.3076E+00 2.8274E+01 4.4501E+00 1.1318E+00 1.0396E+00 7.6368E-01 7.1429E+00 S 9.5185E-03 9.8096E-01 9.5185F-03 3.8432E-13 1.1821E-32 7.5462E-64 0.	STANDING SHOCK 3.2399E+02 3.0374E+01 1.0223E+01 4.7136E+00 1.1372E+00 1.0434E+00 7.0106E-01 3.0031E+00 - MOLE FRACTIONS 4.1599E-02 9.1680E-01 4.1599E-02 1.2760E-10 6.0867E-27 4.0593E-53 4.3481E-88	REFLECTED SHOCK 6.C547E+02 3.3304E+01 1.6741E+01 5.7118E+01 4.9943E+00 1.1551E+00 1.0859E+00 6.8968E-01 2.4857E+00 7.9119E-02 8.4176E-01 7.9119E-02 1.9344E-09 3.1546E-24 5.4823E-48 7.7445E-80	P T RHD H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 1-5007E+02 2.8459E+01 5.1196E+00 3.6619E+01 4.5579E+00 1.1485E+00 1.0300E+00 7.0875E-01 8.4866E+00 2.9098E-02 9.4180E-01 2.9098E-02 2.1557E-11 6.9886E-29 3.3305E-57	STANDING SHOCK 5.6275E+02 3.3309E+01 1.5511E+01 5.8036E+01 4.9989E+00 1.1604E+00 1.0892E+00 6.8877E-01 2.7878E+00 - MOLE FRACTIONS 8.1906E-02 8.3619E-01 8.1906E-02 2.0905E-09 3.5572E-24 6.3702E-48 8.8649E-80	REFLECTED SHOCK 9.3966E+02 3.5697E+01 2.3130E+01 7.4303E+01 5.2799E+00 1.182E+00 1.1881E+00 6.8620E-01 2.4172E+00 1.2132E-01 7.5737E-01 1.2132E-01 1.2132E-01 2.3362E-22 2.0540E-44 2.3036E-74

77 - 10002-01 11/30 17 031- 31002-05 11/320	
	· ·
MOVING, SHOCK STANDING SHOCK REFLECTED	
P 1.7136E+02 7.1805E+02 1.1547	E+03 P 2.1789E+02 1.1108E+03 1.6850E+03
T 2.9498E+01 3.4568E+01 3.6823	F+01 T 3.1229E+31 3.6877E+01 3.8971E+01
RHO 5.5713F+00 - 1.8627F+01 2.6863	E+01 RHO 6.5084E+00 2.5684E+01 3.5110E+01
	+01 H 5.1036E+01 8.5411E+01 1.0448E+02
A 4.6344E+00 15.1449E+00 5.4294	
S 1.1577E+00 1.1735E+00 1.1972	
Z 1.0427E+00 1.1151E+00 1.1673	
GAME - 6.98275-01 6.8669E-01 6.8580	
U 9.1603E+00 2.7332E+00 2.4003	E+00 U 1.0496E+01 2.6528E+00, 2.3899E+00
•	
SPECIES MOLE FRACTIONS	SPECIES MOLE: FRACTIONS
SPECIES	SPICES
E- 4.0976F-02 1.0325E-01 1.4334	6E-01 E- 6.7175E-02 1.4736E-01 1.8797E-01
4 9.1805E-01 7.9350E-01 7.133	
A+ 4.0976E-02 1.0325E-01 1.4334	
	DE-08 A++ 5.3595E-10 3.1122E-08 1.1306E-07
A+++ 1.4003E-27 3.8293E-23 1.653	
4++++ 1.7153E-54 5.7690E-46 8.047	
AV 1.2496E-76 1.677	-E-71 AV 8.2523F-85 2.3324E-71 2.4129E-67
AVI 0. 0.	AVI 0. 0. 0.
AVII 0. 0. 0.	AVII 0. 3. 0.
	AVIII 0. 0.

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P1 = 1.00E+01 N/SO-N. US1= 3.80E+03 M/SEC	P1 = 1.005+01 N/S0-M. US1= 4.20E+03 M/SEC
P1 = 1.00E+01 N/SO-N. US1= 3.80E+03 M/SEC	P1 = 1.00F+01 N/S0-M. US1= 4.20E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK MOVING SHOCK, STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED P 1.9399E+02 9.0120E+02 1.4028	SHOCK , MOVING SHOCK, STANDING SHOCK REFLECTED SHOCK F+03 P. 2.4305E+02 1.3478E+03 2.0008E+03
MOVING SHOCK STANDING SHOCK REFLECTED P 1.9399E+02 9.0120E+02 1.4028 T 3.0409E+01 3.5756E+01 3.7912	SHOCK MOVING SHOCK, STANDING SHOCK REFLECTED SHOCK +03 P. 2.4305€+02 1.3478E+03 2.0008E+03 +01 T 3.1983E+01 3.7948E+01 4.0000E+01
MOVING SHOCK STANDING SHOCK REFLECTED P 1.9399E+02 9.0120E+02 1.4028 T 3.0409E+01 3.5756E+01 3.7912 RHO 6.0365E+00 2.2047E+01 3.0873	SHOCK , MOVING SHOCK, STANDING SHOCK REFLECTED SHOCK +03 P. 2.4305E+02 1.3478E+03 2.0008E+03 +01 T 3.1983E+01 3.7948E+01 4.0000E+01 +01 RHO 6.9828E+00 2.9496E+01 3.9512E+01.
MOVING SHOCK STANDING SHOCK REFLECTED P 1.9399E+02 9.0120E+02 1.4028 T .3.0409E+01 3.5756E+01 3.0873 H 4.5982E+01 7.5801E+01 9.3868	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED P 1.9399E+02 9.0120E+02 1.4028 T .3.0409E+01 3.5756E+01 3.7912 RHO 6.0365E+00 2.2047E+01 3.0873 H 4.5982E+01 7.5801E+01 9.38688 A 4.7154E+00 5.2943E+00 5.5868	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED P 1.9399E+02 9.0120E+02 1.4028 T 3.0409E+01 3.5756E+01 3.7912 RHO 6.0365E+00 2.2047E+01 3.0873 H 4.5992E+01 7.5801E+01 9.3868 A 4.7154E+00 5.2943E+00 5.5826 S 1.1674E+00 1.1877E+00 1.2131	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED P 1.9399E+02 9.0120E+02 1.4028 T 3.0409E+01 3.5756E+01 3.7912 RHO 6.0365E+00 2.2047E+01 3.0873 H 4.5992E+01 7.5801E+01 9.3868 A 4.7154E+00 5.2943E+00 5.5826 S 1.1674E+00 1.1877E+00 1.2131	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK SHOCK STANDING SHOCK REFLECTED SHOCK SHO
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK +03 P. 2.4305E+02 1.3478E+03 2.0008E+03 +01 T 3.1983E+01 3.77948E+01 4.0000E+01 +01 H 5.6339E+01 2.9496E+01 3.9512E+01 +01 H 5.6339E+01 9.5487E+01 1.1554E+02 +00 A 4.8833E+00 5.5971E+00 5.9985E+00 +00 Z 1.885E+00 1.2186E+00 1.2473E+00 +00 Z 1.0883E+00 1.2041E+00 1.2659E+00 -01 GAME 6.6310E-01 6.8562E-01 6.8709E-01 +00 U 1.1156E+01: 2.6468E+00 2.3831E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK +03 P. 2.4305E+02 1.3478E+03 2.0008E+03 +01 T 3.1983E+01 3.77948E+01 4.0000E+01 +01 H 5.6339E+01 2.9496E+01 3.9512E+01 +01 H 5.6339E+01 9.5487E+01 1.1554E+02 +00 A 4.8833E+00 5.5971E+00 5.9985E+00 +00 Z 1.885E+00 1.2186E+00 1.2473E+00 +00 Z 1.0883E+00 1.2041E+00 1.2659E+00 -01 GAME 6.6310E-01 6.8562E-01 6.8709E-01 +00 U 1.1156E+01: 2.6468E+00 2.3831E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED 1.4028	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK +03 P. 2.4305E+02 1.3478E+03 2.0008E+03 T. 3.1983E+01 3.7948E+01 4.0000E+01 +01 H. 5.6339E+00 2.9496E+01 3.9512E+01 +01 H. 5.6339E+00 5.9748TE+01 1.1554E+02 4.0833E+00 5.971E+00 5.985E+00 5.985E+00 1.2186E+00 1.2473E+00 +00 Z. 1.0883E+00 1.2186E+00 1.2473E+00 +00 C. 1.0883E+00 1.2041E+00 1.2659E+00 +00 C. 1.0883E+00 1.2041E+00 1.2659E+00 -01 GAME 6.6310E-01 6.6350E-01 6.6709E-01
MOVING SHOCK STANDING SHOCK REFLECTED 1.9399E+02 9.0120E+02 1.4028 1.40	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK SHOCK STANDING SHOCK REFLECTED SHOCK SHO
MOVING SHOCK STANDING SHOCK REFLECTED	SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED 1.9399E+02 9.0120E+02 1.4028 1.40	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK SHOCK STANDING SHOCK REFLECTED SHOCK SHO

P1 =	1.005+01 M.20-4	. 031- 4.406+0	15 MYSEC	. NI = 1	*00F+01 M\20-W	. USI= 4.80F+0	33 M/2EC
		•					
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	2.6963E+02	1.6182E+03	2.3581E+03	P	3.2608E+02	2.2486E+03	3.1774E+03
T	3.2688E+01	3.8995E+01	4.1030E+01	T	3.3981E+01	4.1004E+01	4.3048F+01
RHO	7.46C3E+00	3.3541E+01	4.4122E+01	ено	8.3945E+00	4.1935E+01	5.3470E+01
H	6.1899E+01	1.0613E+02	1.2733E+02	H	7.3747E+01	1.2873E+02	1.5232E+02
7 .							
A	4.9693E+00	5.7534E+00	6.0641E+00	A ·	5.1442E+00	6.0731E+00	6.4056E+00
S	1.1999E+00	1.2355E+00	1-2659E+00	<u>s</u>	1.2241E+00	1.2712E+00	1.3049E+00
Z ',	1.1056E+00	1.2372E+00	1.3026E+00	2	1.1431E+00	1.3077E+00	1.3804E+00
GAME	6.8327E-01	6.8613E-01	6.8804E-01	GAME	6.8123E-01	6.8785E-01	6.9051E-01
U	1.1818F+01	2.6402E+00	2.3958E+00	, u	1.3110E+01	2.6279E+00	2.4360E+00
			•				
SPECIE	c	- MOLE FRACTIONS	:	SPECIES		MOLE FRACTIONS	
3, 5015	. .	1.000 1 NAO11011	-	3466163		- MOEE PRACTIONS	, ,
E-	9.5543E-02	1.9172E-01	2.3232E-01	. Ε−	1.2521E-01	2.3529E-01	2.7557E-01
Α ΄	8.0891E-01	6.1656E-01	5.3536E-01	A	7.4959E-01	5.2942E-01	4.4887E-01
A+	9.5543E-02	1.9172E-01	2.3232E-01	Ä÷	1.2521E-01	2.3529E-01	2.7556E-01
A++ 1	2.2563E-09	1.1997E-07	3-6804E-07	Ã++	7.1813E-09	3.7897E-07	1.0559E-06
A+++	2.6966E-24	4.6991E-20	7.0262E-19	A+++ `	3.6207E-23	7.2909E-19	8.8463E-18
A++++	2.4313E-48	4.3945E-40	7.8855E-38				
				A++++	2.27795-46	8.1424E-38	1.0162E-35
AV	1.4694E-80	3.7716E-67	1.5917E-63	AV	1.8971E-77	1.6722E-63	
AVI	0. '	0.	0.	IVA	0.	, 0•	0.
IIVA	0.	0.	0.	IIVA	0.	0.	0.
IIIVA	0.	0.	0.	111 VA	0.	o.	0.
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			1.		1 1		
P1 =	1.00E+01 N/SQ-M	. US1= 4.60E+0	3 M/SEC	P1 = 1	.00E+01 N/SO-M	. US1= 5.00E+0	I3 M/SEC
		1					: 1 · 1
, ,, ,	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P							
T		1.9185F+03	2.748KF+03	D	3.5617F+02	2.6106F+03	3.6452F+03
	2.9723E+02	1.9185E+03	2.7486E+03	P	3.5617E+02	2.6106E+03	3.6452E+03
	3.3351E+01	4.0010E+01	4-2040E+01	P T	3.4587E+01	4.1986E+01	4.4060E+01
RHO	3.3351E+01 7.9298E+00	4.0010E+01 3.7705E+01	4.2040E+01 4.8766E+01	· RHO	3.4587E+01 6.8526E+00	4.1986E+01 4.6224E+01	4.4060E+01 5.8195E+01
RHO H	3.3351E+01 7.9298E+00 6.7697E+01	4.0010E+01 3.7705E+01 1.1720E+02	4.2040E+01 4.8766E+01 1.3955E+02	··RHO H	3.4587E+01 8.8526E+00 8.0048E+01	4.1986E+01 4.6224E+01 1.4075E+02	4.4060E+01 5.8195E+01 1.6564E+02
RHO H A	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00	- RHO H A	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00	4.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00
RHO H A S	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00	RHO H A S	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00	4.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00
RHO H A S	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 1.1239E+00	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00	RHO H A S Z	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00	4.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00
RHO H A S	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00	RHO H A S	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00	4.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00
RHO H A S	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 1.1239E+00	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00	RHO H A S Z	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00	4.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00
RHO H A S Z Game	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 1.1239E+00 6.8204E-01	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01	4.2040E+01 4.876E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01	RHO H A S Z GAME	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01	4.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01
RHO H A S Z Game U	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 1.1239E+00 6.8204E-01 1.2466E+01	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01 2.6248E+00	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00	RHO H A S Z GAME U	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01	4.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00
RHO H A S Z Game	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 1.1239E+00 6.8204E-01 1.2466E+01	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00	RHO H A S Z GAME	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01	4.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00
RHO H A S Z Game U	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 1.1239E+00 6.8204E-01 1.2466E+01	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01 2.6248E+00	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00	RHO H A S Z GAME U	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01	4.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00
RHO H A S Z GAME U	3.335LE+01 7.929BE+00 6.7697E+01 5.0562E+00 1.2117E+00 1.1239E+00 6.8204E-01 1.2466E+01	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01 2.6248E+00	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00	RHO H A S Z GAME U	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01	+.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00
RHO H A S Z GAME U SPECIE E- A	3.3351E+01 7.929E+00 6.7697E+01 5.0562E+00 1.2117E+00 6.8204E-01 1.2466E+01 S	4-0010E+01 3-7705E+01 1-1720E+02 5-9119E+00 1-2530E+00 1-2717E+00 6.8689E-01 2-6248E+00 - MOLE FRACTIONS 2-1366E-01 5-7269E-01	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00	RHO H A S Z GAME U SPECIES E- A	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01	- 1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00 - MOLE FRACTICNS 2.5659E-01 4.8682E-01	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00
RHO H A S Z GAME U SPECIE E- A A+	3.335LE+01 7.929BE+01 5.0562E+00 1.2117E+00 1.1239E+00 6.8204E-01 1.2466E+01 5 	4.0010E+01 3.7705E+02 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01 2.6248E+00 - MOLE FRACTIONS 2.1366E-01 5.7269E-01 2.1366E-01	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00 	RHO H A S GAME U SPECIES E- A A+	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01	+ 1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00 - MOLE FRACTIONS 2.5659E-01 4.8682E-01 2.5659E-01	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00
RHO H A S Z GAME U SPECIE E- A A+ A++	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 6.8204E-01 1.2466E+01 S 1.1025E-01 7.7950F-01 1.1025E-01 4.1349E-09	4-0010E+01 3-7705E+01 1-1720E+02 5-9119E+00 1-2530E+00 1-2717E+00 6-8689E-01 2-6248E+00 - MOLE FRACTIONS 2-1366E-01 5-7269E-01 2-1366E-01 2-1366E-01 2-1760E-07	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00 	RHO H A S Z GAME U SPECIES E- A A+ A++	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01 1.4035E-01 7.1929E-01 1.4035E-01 1.1958E-08	4.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00 - MOLE FRACTICNS 2.5659E-01 4.8682E-01 2.5659E-01 6.4058E-07	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00 2.9660E-01 4.0680E-01 1.7343E-06
RHO H S S Z GAME U SPECIE E- A A+ A++	3.3351E+01 7.929E+00 6.7697E+01 5.0562E+00 1.2117E+00 6.8204E-01 1.2466E+01 S	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01 2.6248E+00 - MOLE FRACTIONS 2.1366E-01 2.1366E-01 2.1366E-01 2.1760E-07 1.9496E-19	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00 2.5412E-01 4.9176E-01 2.5412E-01 6.3105E-07 2.5664E-18	RHO H A S Z GAME U SPECIES E- A A+ A++	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01 		4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00
RHO H A S Z GAME U SPECIE E- A A+ A++ A+++	3.335LE+01 7.929BE+00 6.7697E+01 5.0562E+00 1.2117E+00 1.1239E+00 6.8204E-01 1.2466E+01 S 1.1025E-01 7.7950E-01 4.1349E-09 1.0531E-23 2.8997E-47	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01 2.6248E+00 - MOLE FRACTIONS 2.1366E-01 5.7269E-01 2.1366E-01 2.1760E-07 1.9496E-19 6.8438E-39	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00 	RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01 	+.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00 - MOLE FRACTICNS 2.5659E-01 4.8682E-01 2.5659E-01 6.4058E-07 2.5787E-18 9.3701E-37	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00 4.0680E-01 4.0680E-01 2.9660E-01 1.7343E-06 2.9234E-17 9.8720E-35
RHO H S S Z GAME U SPECIE E- A A+ A++ A+++ AV	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 6.8204E-01 1.2466E+01 S 1.1025E-01 7.7950F-01 1.1025E-01 4.1349E-09 1.0531E-23 2.8997E-47 6.4750E-71	4-0010E+01 3-7705E+01 1-1720E+02 5-9119E+00 1-2530E+00 1-2717E+00 6-8689E-01 2-6248E+00 - MOLE FRACTIONS 2-1366E-01 2-1366E-01 2-1760E-07 1-9496E-19 6-8438E-39 3-6034E-65	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E+01 2.4137E+00 	RHO H A S Z GAME U SPECIES E- A A+ A++ A++ A++	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01 7.1929E-01 1.4035E-01 1.4035E-01 1.1958E-08 1.1632E-22 1.8121E-45 1.9379E-75	- 1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00 - MOLE FRACTIONS 2.5659E-01 4.8682E-01 2.5659E-01 6.4058E-07 2.5787E-18 9.3701E-37 1.0198E-61	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.3254E+00 6.9204E-01 2.4627E+00 2.4627E+00 2.9660E-01 4.0680E-01 2.9660E-01 1.7343E-06 2.9234E-17 9.8720E-35 1.9396E-58
RHO H A S Z GAME U SPECIE E-A A++ A+++ A+++ A+++ AV	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 6.8204E-01 1.2466E+01 S	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01 2.6248E+00 - MOLE FRACTIONS 2.1366E-01 2.1366E-01 2.1366E-01 2.1760E-07 1.9496E-19 6.8438E-39 3.6034E-65 0.	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00 	RHO H A S Z GAME U SPECIFS E- A A+ A++ A++ AV++ AV	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01 1.4035E-01 1.4035E-01 1.1958E-08 1.163E-02 1.8121E-45 1.9379E-75 0.	+.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00 - MOLE FRACTICNS 2.5659E-01 4.8682E-01 2.5659E-01 6.4058E-07 2.5787E-18 9.3701E-37 1.0198E-61 0.	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00 2.9660E-01 4.0680E-01 2.9660E-01 1.7343E-06 2.9234E-17 9.8720E-35 1.9396E-58
RHO H A S Z GAME U SPECIE E-A A+ A+++ A++++ AV AVII	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 6.8204E-01 1.2466E+01 S 1.1025E-01 7.7950E-01 1.1025E-01 4.1349E-09 1.0531E-23 2.8997E-47 6.4750E-79 0.	4-0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01 2.6248E+00 - MOLE FRACTIONS 2.1366E-01 5.7269E-01 2.1366E-01 2.1366E-01 6.8438E-39 3.6034E-65 0.	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00 	RHO H A S Z GAME U SPECIES E- A A+ A++ A++ AV AVI	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01 1.4035E-01 7.1929E-01 1.4035E-01 1.1958E-08 1.1632E-22 1.8121E-45 1.9379E-75 0.	*.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00 - MOLE FRACTICNS 2.5659E-01 4.8682E-01 2.5659E-01 6.4058E-07 2.5787E-18 9.3701E-37 1.0198E-61 0.	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E+01 2.4627E+00 2.9660E+01 4.0680E+01 1.7343E+06 2.9234E+17 9.8720E+35 1.9396E+58 0.
RHO H A S Z GAME U SPECIE E-A A++ A+++ A+++ A+++ AV	3.3351E+01 7.9298E+00 6.7697E+01 5.0562E+00 1.2117E+00 6.8204E-01 1.2466E+01 S	4.0010E+01 3.7705E+01 1.1720E+02 5.9119E+00 1.2530E+00 1.2717E+00 6.8689E-01 2.6248E+00 - MOLE FRACTIONS 2.1366E-01 2.1366E-01 2.1366E-01 2.1760E-07 1.9496E-19 6.8438E-39 3.6034E-65 0.	4.2040E+01 4.8766E+01 1.3955E+02 6.2325E+00 1.2850E+00 1.3407E+00 6.8918E-01 2.4137E+00 	RHO H A S Z GAME U SPECIFS E- A A+ A++ A++ AV++ AV	3.4587E+01 8.8526E+00 8.0048E+01 5.2334E+00 1.2369E+00 1.1633E+00 6.8074E-01 1.3750E+01 1.4035E-01 1.4035E-01 1.1958E-08 1.163E-02 1.8121E-45 1.9379E-75 0.	+.1986E+01 4.6224E+01 1.4075E+02 6.2379E+00 1.2901E+00 1.3452E+00 6.8899E-01 2.6373E+00 - MOLE FRACTICNS 2.5659E-01 4.8682E-01 2.5659E-01 6.4058E-07 2.5787E-18 9.3701E-37 1.0198E-61 0.	4.4060E+01 5.8195E+01 1.6564E+02 6.5839E+00 1.3254E+00 1.4217E+00 6.9204E-01 2.4627E+00 4.0680E-01 2.9660E-01 1.7343E-06 2.9234E-17 9.8720E-35 1.9396E-58

P1 - 10 N/ m2

P1 = 1	.00E+01 N/SO-M	. US1= 5.20E+0	3 H/SEC	P1 = 1	.00E+01 N/SQ-M	. US1= 5.60E+	O3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MEVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
. P	3.8749E+02	3.0049E+03	4.1529E+03	P	4.5375E+02	3.8901E+03	5.2887E+03
T	3.5171E+01	4.2962E+01	4.5084E+01	т	3.6288F+01	4.4922E+01	4.7204E+01
RHO	9.3025E+00	5.0536E+01	6.2898E+01	RHO	1.01746+01	5.9075E+01	7.2074E+01
н	8.6601E+01	1.5325E+02	1.7951E+02	H	1.0046E+02	1.7967E+02	2.0893E+02
A	5.3239E+00	6.4067E+00	6.7680E+00	A	5.5090E+00	6.7575E+00	7.1572E+00
S	1.2503E+00	1.3096E+00	1.3466E+00	S	1.2782E+0J	1.3503E+00	1.3907E+00
Z	1.1843E+00	1.3841E+00	1.4645E+00	Ž	1.2291E+00	1.4659E+00	1.5545E+00
GAME	6.8047E-01	6.9029E-01	6.9378E-01	GAME	6.8048F-01	6.9346E-01	6.9809E-01
Ņ	1.4387E+01	2.6525E+00	2.4938E+00	U	1.5649E+01	2.6995E+00	2.5714E+00
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
· E-	1.5563E-01	2.7748E-01	2 17175 01	E-	1 0/275 01	2 17025 01	2' 54 725 AL
A .	6.8874E-01	4.4504E-01	3.1717E-01 3.6567E-01		1.8637E-01	3.1782E-01	3'-5672E-01
Ã+	1.55635-01	2.77486-01	3.1716E-01	A A+	6.2726E-01 1.8637E-01	3.6437E-01 3.1791E-01	2.8658E-01 3:5670E-01
A++ .	1.9248E-08	1.0560E-06	2.8115E-06	A++	4.5524E-08	2.7268E-06	7.25448-06
A+++	3.6185E-22	8.5225F~18		A+++	2.5575E-21	8.3929E-17	9.2939E-16
A++++	2.35095-44	8.8042E-36	9.3824E-17 9.0187E-34	4+++	7.2429F-43	6. 7973E-34	6.8466E-32
AV	3.21676-74	3.2540E-60	6.8397E-57	AV	4.09785-72	3.6842E-57	7.0541E-54
IVA	0.	0.	1.4890E-86	IVA	0.	3.2370E-87	3.8011E-82
ÄVII	0.	. 0.	0.	AVII	0.	0.	0.
AVIII	0.	0.	ŏ.	TITVA	0.	0.	0.
					·		
P1 = 1	.00E+01 N/S0-M	• US1= 5.40E+0	3 M/SEC	P1 = 1	.00F+01 N/S0-M	. US1= 5.80E+0	3 M/SEC
	MCVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MCVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	4.2015E+02	3.4347E+03	4.7044E+03	P	4.8857E+02	4.3776E+03	5.9134E+03
τ `	3.5738F+01	4.3943E+01	4.6133E+01	Ť	3.6927E+01	4.59165+01	4.8319E+01
RHQ	9.7461E+00	5.4871E+01	6.7579E+01	RHO	1.0590E+01	6.3198E+01	7.6423E+01
н	9.3412E+01	1.6628E+02	1.9400F+32	н	1.0777E+02	1.9354E+02	2.2441E+02
A	5.4159E+00	6.5805E+00	6.9596E+00	A	5.6038E+00	6.9403E+00	7.3640E+00
S .	1.2640E+00	1.3298E+00	1.3685F+00	· S	1.2929E+00	1.3715E+00	1.4135E+00
ζ	1.2063E+00	1.4245E+00	1.5090F+00	Z	1.2527E+00	1.5086E+00	1.6014E+00
GAME	6.8043E-01	6.9179E-01	6.9578E-01	GAME	6.8068E-01	6.9537E-01	7.0082E-01
U	1.5025E+01	2.6731E+00	2.5295E+00	U	1.62725+01	2.7313E+00	2.6162E+00
SPECIES		- MOLF FRACTIONS		SPECIES		- MOLE FRACTIONS	
E -	1.7100F-01	2.9799E-01	3.3729E-01	E-	2.01745-01	3.3712F-01	3.75548-01
Ā	6.58015-01	4.0402E-01	3.2542E-01	Ā	5.9653E-01	3.2576E-G1	2.4893E-01
A +	1.71005-01	2.9799E-01	3.3729E-01	Ä÷	2.0173E-01	3.3712E-01	3.7552E-01
A++	3.0007E-08	1.7132E-06	4.5308E-06	A++	6.7804E-08	4.3092E-06	1.1655E-05
A+++	1.0021F-21	2.7480E-17	2.9749E-16	A+++	6.6031E-21	2.5496E-16	2.9244E-15
A + + + +	1.5802F-43	8.4250E-35	8.0031E-33	_ Δ++++	5.3460E-42	5.7406E-33	5.77895-31
AV	7.03118-73	1.4448E-58	2.2779E-55	. AV	1.7891E-70	1.2856E-55	1.8709E-52
IVA	o.	0.	2.5347E-84	IVA	0.	1.0612E-84	1.1201E-80
TIVA	0.	0.	· 0•	I I VA	0.	- 0.	0.
AVIII	0.	3.	3.	TTTVA	0.	0.	0.

I	.00E+01 N/SU-M	US1= 6.00E+0	3' M/SEC	P1 = 1	1.00E+01 N/S0-M	I+ US1= 6.40E+0	D3 M/SEC
and the first second							
·	MOVING SHOCK		REFLECTED SHOCK				REFLECTED SHOCK
P	5.2505E+02	4.9087E+03	6.5941E+03	Р	6.0117E+02	6.0495E+03	8.0641E+03
T.	3.7359E+01	4.6952E+01	4.9518E+01	Ť	3.8406E+01	4-9130E+01	5.2221E+01
RHO:	1.1003E+01	6.7320E+01	8.C699E+01	RHO	1.1776E+01	7-4880E+01	8.8234E+01
H	1.1534E+02.	2.0807E+02	2.4069E+02	H	1.3123£+02	2-3834E+02	2.7490E+02
Δ.	5.7005E+00	7.1320E+00	7.5855E+00	. A		7.5378E+00	8.0777E+00
308			1.4370E+00	S	1.3396E+00	1.4379E+00	1.4852E+00
Z	1.2773E+00	1.5530E+00	1-6501E+00	ž	1.3292E+00	1-6444E+00	1.7502E+00
GAME	6.8100E-01	6.9760E-01	7.0419E-01	GAME	6.8190E-01	7.0329E-01	7.1393E-01
U	1.6907E+01	2.7678E+00	2.6681E+00	U.	1.8152E+01		
	1.090/2401	2010102100	2100012.00	U.	1.01326+01	2.8593E+00	2.7955E+00
			•				
SPECIES		- MOLE FRACTIONS		SPECIES	·	- MOLE FRACTIONS	
E-	2.1708E-01	3.5608E-01	3.9399E-01	E-	2.4769E-01	3.9188E-01	4.2863E-01
	5.6583E-01	2.8785E-01	2.12045-01	Ā	5.0462E-01	2.1625E-01	
A			3.9395E-01	Ã÷			1.4280E-01
A+	2.1708E-01	3.5607E-01			2.4769E-01	3.9185E-01	4.2852E-01
A++	9.9213E-08	6.8187E-06	1.9083E-05	A++	2.0359F-07	1.71786-05	. 5.5148E-05
A+++	1.6143E-20	7.7342E-16	9.6642E-15	. A+++	8.5806E-20	7.3063E-15	1.2930E-13
. A++++	3.0021E-41	4.8093E-32	5.3588E-30	A++++	6.6345E-40	3.1964E-30	7.2605E-28
- A V	3.2335E-69	3.4948E-54	5.9523E-51	· AV	4.0297E-67	3.2175E-51	1.9642E-47
AVI	0.	1.2087E-82	2.2740E-78	AVI.	0.	2.8894E-78	1.0596E-72
TIVA	0.	0.	0∙ (AVII	0.	0.	0.
IIIVA	0.	0.	, 0.	IIIVA	0.	0.	0.
	•		•				
P1 = 1	.00E+01 N/SQ-M	. US1= 6.20E+0	3 M/SEC	P1 = 1	L.00E+01 N/SQ-M	• US1= 6.60E+0	3 M/SEC
P1 = 1			•	P1 = 1			
	HOVING SHECK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
			REFLECTED SHOCK 7.3095E+03	Р			
, P	HOVING SHECK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
	MOVING SHCCK 5.6251E+02	STANDING SHOCK	REFLECTED SHOCK 7.3095E+03	Р	MOVING SHOCK 6.4106E+02	STANDING SHOCK 6.6684E+03	REFLECTED SHOCK 8.8735E+03
P T RHO	MOVING SHCCK 5-6251E+02 3-7882E+01 1-1399E+01	STANDING SHOCK -5-4651E+03 4-8015E+01 -7-1217E+01	REFLECTED SHOCK 7-3095E+03 5-0802E+01 8-4652E+01	P T	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01	REFLECTED SHOCK 8.8735E+03 5.3860E+01 9.1450E+01
P T RHO	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02	STANDING SHOCK 5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02	REFLECTED SHOCK 7-3095E+03 5-0802E+01 8-4652E+01	P T RHO	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02	REFLECTED SHOCK 8.8735E+03 5.3860E+01 9.1450E+01 2.9313E+02
P T RHO H	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00	STANDING SHOCK 5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02 7.3302E+00	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00	Р Т - RHO Н	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00	REFLECTED SHOCK 8.8735E+03 5.3860E+01 9.1450E+01 2.9313E+02 8.3684E+00
P RHO H	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00	STANDING SHOCK -5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02 7.3302E+00 1.4154E+00	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00	P T RHO H A S	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00	REFLECTED SHOCK 8.8735403 5.3860E+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00
P T RHO H	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00	STANDING SHOCK 5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02 7.3302E+00 1.4154E+00 1.5982E+00	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00	P T RHO H A S Z	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.6914E+00	REFLECTED SHOCK 8.8735E+03 5.3860E+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00 1.8015E+00
P RHO H A S Z GAME	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E-01	STANDING SHOCK 5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02 7.3302E+00 1.4154E+00 1.5982E+00 7.0019E-01	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01	P T RHO H A S Z GAME	MOVING SHOCK 6.4106±+02 3.8915±+01 1.2150±+01 1.3956±+02 6.0008±+00 1.3555±+00 1.3559±+00 6.8248±-01	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.6914E+00 7.0712E-01	REFLECTED SMDCK 8.8735E+03 5.3860E+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01
P T RHO H	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00	STANDING SHOCK 5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02 7.3302E+00 1.4154E+00 1.5982E+00	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00	P T RHO H A S Z	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.6914E+00	REFLECTED SHOCK 8.8735E+03 5.3860E+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00 1.8015E+00
P T RHO H A S Z GAME U	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E+01 1.7531E+01	STANDING SHOCK 5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02 7.3302E+00 1.4154E+00 1.5982E+00 7.0019E-01 2.8105E+00	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00	P T- RHO H A S Z GAME U	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.6914E+00 7.0712E-01 2.9157E+00	REFLECTED SHOCK 8.8735±03 5.3860E+01 9.1450E+01 2.9313±02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01 2.8852E+00
P RHO H A S Z GAME	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E+01 1.7531E+01	STANDING SHOCK 5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02 7.3302E+00 1.4154E+00 1.5982E+00 7.0019E-01	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00	P T RHO H A S Z GAME	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.6914E+00 7.0712E-01	REFLECTED SHOCK 8.8735±03 5.3860E+01 9.1450E+01 2.9313±02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01 2.8852E+00
P T RHO H A S Z GAME U	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E+01 1.7531E+01	STANDING SHOCK 5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02 7.3302E+00 1.4154E+00 1.5982E+00 7.0019E-01 2.8105E+00	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00	P T- RHO H A S Z GAME U	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.6914E+00 7.0712E-01 2.9157E+00	REFLECTED SHOCK 8.8735±03 5.3860E+01 9.1450E+01 2.9313±02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01 2.8852E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E-01 1.7531E+01	STANDING SHOCK	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.4914E+00 7.0712E-01 2.9157E+00	REFLECTED SHOCK 8.8735+03 5.3860+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01 2.8852E+00
P T RHO H A S Z GAME U	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E-01 1.7531E+01	STANDING SHOCK	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00	P T- RHO H A S Z GAME U SPECIES	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.4694E+00 7.0712E-01 2.9157E+00 MOLE FRACTIONS 4.0879E-01	REFLECTED SHOCK 8.8735±03 5.3860F+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01 2.8852E+00
P T RHO H A S Z GAME U SPECIES E-A A+	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E-01 1.7531E+01 2.3233E-01 5.3535E-01 2.3233E-01	\$\$\text{STANDING SHOCK}\$ \$.4651E+03\$ \$4.8015E+01\$ \$7.1217E+01\$ \$2.2297E+02\$ \$7.3302E+00\$ \$1.5982E+00\$ \$1.5982E+00\$ \$7.0019E-01\$ \$2.8105E+00\$ **MOLE FRACTIONS* \$3.7430E-01\$ \$2.5141E-01\$ \$3.7428E-01\$	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00 4.1166E-01 1.7672E-01 4.1159E-01	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.4614E+00 7.0712E-01 2.9157E+00 MOLE FRACTIONS 4.0879E-01 1.8246E-01 4.0873E-01	REFLECTED SHOCK 8.8735E+03 5.3860E+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01 2.8852E+00
P T RHO H A S Z GAME U SPECIES E-A A+A++	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E-01 1.7531E+01	STANDING SHOCK	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00 4.1166E-01 1.7672E-01 4.1159E-01 3.1848E-05	PTRHOHASSZGAMEU	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.4694E+00 7.0712E-01 2.9157E+00 - MOLE FRACTIONS 4.0879E-01 1.8246E-01 4.0873E-01 2.7834E-05	REFLECTED SHOCK 8.8735±03 5.3860F+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01 2.8852E+00 4.4492E-01 1.1027E-01 4.4471E-01 1.0159E-04
P T RHO H A S Z GAME U SPECIES E-A A++ A++	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3234E+01 1.7531E+01 2.3233E-01 2.3233E-01 2.3233E-01 1.4256E-07 3.6735E-20	STANDING SHOCK	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00 4.1166E-01 1.7672E-01 4.1159E-01 3.1848E-05 3.3728E-14	P T- RHO H A S GAME U SPECIES E- A A+ A++	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01	STANDING SHOCK 6.66846+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4610E+00 1.4614E+00 7.0712E-01 2.9157E+00 - MOLE FRACTIONS 4.0879E-01 4.0873E-01 2.7834E-05 2.3643E-14	REFLECTED SHOCK 8.8735E+03 5.3860E+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00 1.5099E+00 2.8852E+00 4.4492E-01 1.1027E-01 4.4471E-01 1.0159E-04 5.7100E-13
P T RHO H A S C GAME U SPECIES E-A A+A+++A++++	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E-01 1.7531E+01 2.3233E-01 2.3233E-01 2.3233E-01 2.3233E-01 1.4256E-07 3.6735E-20 1.1937E-40	STANDING SHOCK	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00 4.1166E-01 1.7672E-01 4.1159E-01 3.1848E-05 3.3728E-14 5.7212E-29	P T RHO H A S Z GAME U SPECIES E-A A+A++A+++A+++	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01 2.6246E-01 4.7509E-01 2.6246E-01 2.8490E-07 1.9056E-19 3.1104E-39	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.4606E+00 1.29157E+00 - MOLE FRACTIONS 4.0879E-01 1.0246E-01 4.0873E-01 2.7834E-05 2.3643E-14 2.8893E-29	REFLECTED SMOCK 8.8735E+03 5.3860E+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01 2.8852E+00 4.4492E-01 1.1027E-01 4.4471E-01 1.0159E-04 5.7100E-13 1.1300E-26
P T RHO H A S Z Z GAME U SPECIES E-A A+A A++A A++A A++A A++A A++A AV	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E-01 1.7531E+01 2.3233E-01 2.3233E-01 2.3233E-01 2.3233E-01 2.3233E-01 6.9347E-69	STANDING SHOCK 5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02 7.3302E+00 1.5982E+00 7.0019E-01 2.8105E+00 - MOLE FRACTIONS 3.7430E-01 2.5141E-01 3.7428E-01 1.0776E-05 2.3440E-15 3.6859E-31 9.2361E-53	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00 4.1166E-01 1.7672E-01 4.1159E-01 3.1848E-05 3.3728E-14 5.7212E-29 3.0809E-49	P T RHO H A S Z GAME U SPECIES E-A + A++ A+++ A+++ AV	MOVING SHOCK 6.4106E+02 3.891.5E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01 2.6246E-01 4.7509E-01 2.6246E-01 2.6246E-01 2.6246E-01 3.1104E-39 3.1104E-39	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.4694E+00 7.0712E-01 2.9157E+00 - MOLE FRACTIONS 4.0879E-01 1.8246E-01 4.0873E-01 2.7834E-05 2.3643E-14 2.8933E-29 1.0905E-49	REFLECTED SHOCK 8.8735±03 5.3860F+01 9.1450E+01 2.9313±02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01 2.8852E+00 4.4492E-01 1.027E-01 4.4471E-01 1.0159E-04 5.7100E-13 1.1300E-26 1.4582E-45
P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++A++++A++++A++++A++++A+++	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3026E+00 6.8140E-01 1.7531E+01 2.3233E-01 2.3233E-01 1.4256E-07 3.6735E-20 1.937E-40 6.9947E-69 0.	STANDING SHOCK	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00 4.1166E-01 1.7672E-01 4.1159E-01 3.1848E-05 3.3728E-14 5.7212E-29 3.0809E-49 1.7089E-75	P T RHO H A S Z GAME U SPECIES E-A A ++++ A ++++ A V A VI	MOVING SHOCK 6.4106E+02 3.8915E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01 2.6246E-01 2.6246E-01 2.8490E-07 1.9056E-19 3.1104E-39 5.4157E-66	STANDING SHOCK 6.66846+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4616E+00 1.4614E+00 2.9157E+00 MOLE FRACTIONS 4.0879E-01 1.8246E-01 4.0873E-05 2.3643E-14 2.8933E-29 1.0905E-49 5.0277E-76	REFLECTED SHOCK 8.8735E+03 5.3860E+01 9.1450E+01 2.9313E+02 8.3684E+00 1.5099E+00 1.5099E+00 2.8852E+00 4.4492E-01 1.1027E-01 4.4471E-01 1.0159E-04 5.7100E-13 1.1300E-26 1.4582E-45 4.9201E-70
P T RHO H A S Z Z GAME U SPECIES E-A A+A A++A A++A A++A A++A A++A AV	MOVING SHCCK 5.6251E+02 3.7882E+01 1.1399E+01 1.2316E+02 5.7987E+00 1.3234E+00 1.3026E+00 6.8140E-01 1.7531E+01 2.3233E-01 2.3233E-01 2.3233E-01 2.3233E-01 2.3233E-01 6.9347E-69	STANDING SHOCK 5.4651E+03 4.8015E+01 7.1217E+01 2.2297E+02 7.3302E+00 1.5982E+00 7.0019E-01 2.8105E+00 - MOLE FRACTIONS 3.7430E-01 2.5141E-01 3.7428E-01 1.0776E-05 2.3440E-15 3.6859E-31 9.2361E-53	REFLECTED SHOCK 7.3095E+03 5.0802E+01 8.4652E+01 2.5748E+02 7.8210E+00 1.4609E+00 1.6997E+00 7.0839E-01 2.7273E+00 4.1166E-01 1.7672E-01 4.1159E-01 3.1848E-05 3.3728E-14 5.7212E-29 3.0809E-49	P T RHO H A S Z GAME U SPECIES E-A + A++ A+++ A+++ AV	MOVING SHOCK 6.4106E+02 3.891.5E+01 1.2150E+01 1.3956E+02 6.0008E+00 1.3555E+00 1.3559E+00 6.8248E-01 1.8772E+01 2.6246E-01 4.7509E-01 2.6246E-01 2.6246E-01 2.6246E-01 3.1104E-39 3.1104E-39	STANDING SHOCK 6.6684E+03 5.0321E+01 7.8347E+01 2.5419E+02 7.7580E+00 1.4606E+00 1.4694E+00 7.0712E-01 2.9157E+00 - MOLE FRACTIONS 4.0879E-01 1.8246E-01 4.0873E-01 2.7834E-05 2.3643E-14 2.8933E-29 1.0905E-49	REFLECTED SHOCK 8.8735±03 5.3860F+01 9.1450E+01 2.9313±02 8.3684E+00 1.5099E+00 1.8015E+00 7.2172E-01 2.8852E+00 4.4492E-01 1.027E-01 4.4471E-01 1.0159E-04 5.7100E-13 1.1300E-26 1.4582E-45

P1 ≠ 1	.00E+01 N/S0-M	I• US1= 6.80E+0	3 M/SEC	P1 = 1	1.00E+01 N/SO-M	• US1= 7.20E+0	3 M/SEC
•		•					• •
	MUNING SHUCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SMOCK	REFLECTED SHOCK
ρ ΄ ΄	6.8216E+02	7.3130E+03	9.7178E+03	ρ,	7.6799E+02	8.6747E+03	1.1580E+04
T	3.9428E+01	5.1615E+01	5.5808E+01	7	4.0458E+01	5.4736E+01	6.1933E+01
RHO	1.2504E+01	8.1472E+01	9.4020E+01	RHO	1.31676+01	8.63996+01	9-6029E+01
	1.4814E+02	2.7050E+02	3.11876+02	H	1.6607E+02	3.3450E+02	3.5279E+02
H A	6.1048E+00	7.9944E+00	. " 8.7060E+00	Ä	6.3196E+00	8.5488E+00	9.7004E+00
Š	1.3721E+00	1.4837E+00	1.5347E+00	<u> </u>	1.4064E+00	1.5302E+00	1.5855E+00
ž	1.3721E+00	1.7390E+00	1.8521E+00	2	1.4417E+00	1.8343E+00	
ĞAME	6.8314E-01	7.1201E-01	7.33305-01	GAME	6.8472E-01	7.2789E-01	
U	1.9390E+01	2.9835E+00	2.9707E+00	U .	2.0620E+01	3.1470E+00	3.2732E+00
U	1.43496401	2.78336400	2. 110 /2+00	U	· 2.0020E+01	3-14/02/00	3.21326400
SPECIES		- MOLE FRACTIONS	,	SPECIFS		- MOLE FRACTIONS	
E-	2.7728E-01	4.2497E-01	4.6006E-01	€-	3.0636E-01	4.5483E-01	4.8640E-01
A	4.4544E-01	1.5011E-01	8.0076E-02	A	3.8729E-01	9.0495E-02	2.87026-02
A+ -	2.77286-01	4.2488E-01	4.5966E-01	A +	3.0636E-01	4.5453E-01	4.8339E-01
A++	3.9601E-07	4.6333E-05	2.0413E-04	A++ .	7.5342E-07	1.4917E-04	1.50396-03
A+++ ' '	4.0475E-19	8.1729E-14	3.1340E-12	A + + +	1.8880E-18	1.4094E-12	4.1068E-10
A ++++	1.1067E-38	2.9345E-28	2.65596-25	A++++	2.3047E-37	5.7922E-26	
AV	1.3666E-65		2.1888E-43	AV	5.25298-63	1.8913E-44	
IVA	0.	1.0819E-73	7.3494E-67	AVI,	J	2.0513E-68	5.2773E-58
IIVA	j.	J.	0.	IIVA	0.	. 0.	1.3650E-86
IIIVA	0.	0.	0.	IIIVA	0.	0.	0.
	•••				• •		
P1 = 1	.00E+01 N/S0-M	. US1= 7.00E+0	3 M/SEC	P1 = 1	1.00E+01 N/SO-M	• US1= 7.40E+0	3 M/SEC
	HOUTHS 511054		DEC FCTF0 01004		MONTHS SHOEK		0551 56750 611064
P		STANDING SHOCK 7.9829E+03	REFLECTED SHOCK 1.0619E+04	Р	8.1271E+02		REFLECTED SHOCK
Ť	7.2447E+02 3.9942E+01	5.3048E+01	5.8355E+01	Ť	4.0979E+01	9.3833E+03 5.6770E+01	1.2600E+04 6.6660E+01
RHO	1.2843E+01	8.42445+01	9.5689E+01	RHO	1.3475E+01		9.5286E+01
H	1.5698E+02	2. 8728E+02	3.3175E+02	H	1.7541E+02	8.7905E+01 3.2214E+02	
Ä		8.25135+00	9.1374E+00	Ä	6.4307E+00		
Ŝ	6.2111E+00	1.5066E+00	1.5600E+00	ŝ	1.4240E+00	8.8994E+00	1.0176E+01
ž	1.3891E+00	1.7863E+00	1.90185+00	2	1.4718E+00	1.5534E+00 1.8803E+00	1.6106E+00 1.9838F+00
GAME	1.41235+30		7.5232E-01	GAME	6.8565E-01	7.4196E-01	
U	6.8388E-01	7.1849E-01		U	2.1233E+01		7.8303E-01
U	2.0006E+01	3.0560E+00	3.1008E+00	U	2.12336401	3.2593E+00	3.4873E+00
SPÉCIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	2.91925-01	4.4019E-01	4.7418E-01	ε-	. 3.2056E-01	4.6817E-01	4.95918-01
Ä	4.1615E-01	1.1971E-01	5.2125E-32		3.5888E-01	6.3969E-02	1.38226-02
Ã+	2.9192E-01	4.4003F-01	4.7321E-01	Ä÷	3.2056F-01	4.6756E-01	
A++	5.4796E-07	7.9965E-05	4.8614E-04	Ä++	1.0298E-06	3.0631E-04	5.6411E-03
A+++	8.84815-19	3.0835E-13	2.6040E-11	A+++	3.8859E-18	8.1440E-12	1.0556E-08
A++++	5.40185-38	3.4512E-27	1.3178E-23	A++++	7.8762E-37	1.4785E-24	7.92846-19
AV	4.7329E-64	2.1477E-46	1.04046-40	ÄV	1.6208F-62	3.1653E-42	
AVI	0.	3.0109E-71	5.5266E-63	ÄVI	0.	3.4202E-65	3.68486-52
IIVA	0.	0.	0.	ÄVII	0.	0.	2.52796-78
AVIII	0.	0.	0.	AVIII	0.	0.	0.
	u.	0.	U •	M 7 1 1 L	· ·	U.	V.

PI = 1.00E+01 N/SO-M. USI= 7.60E+03 M/SEC	P1 = 1.00E+01 N/SO-M. US1= 8.00E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 8.5863E+02 1.0100E+04 1.3650E+04	P 9.5405E+02 1.1532E+04 1.5773E+04
T 4.1508E+01 5.9383E+01 7.0923E+01	
RHO 1.3766E+01 8.8443E+01 9.5485E+01	
	H 2.0497E+02 3.7739E+02 4.4233E+02
	A 6.7818E+00 1.0182E+01 1.0687E+01
	S 1.4788E+00 1.6201E+00 1.6780E+00
Z 1.5027E+00 1.9230E+00 2.0156E+00	Z 1.5666E+00 1.988E+00 2.0829E+00
GAME 6.8670E-01 7.6352E-01 7.4897E-01	GAME 6.8919E-01 7.7926E-01 7.1656E-01
U 2.1843E+01 3.4043E+00 3.6794E+00	U 2.3060E+01 3.8079E+00 3.9099E+00
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E- 3.3453F-01 4.7998E-01 5.0386E-01	E- 3.6167E-01 4.9718E-01 5.1990E-01
A 3.3095E-01 4.0767E-02 7.7751E-03	
A+ 3.3453E-01 4.7851E-01 4.7286E-01	A 2.7666E-01 1.2194E-02 4.1413E-03
	A+ 3.6167E-01 4.8407E-01 4.3203E-01
A++ 1.4084E-06 7.3519E-04 1.5504E-02	A++ 2.6280E-06 6.5584E-03 - 4.3931E-02
A+++ 8.2936E-18 6.8833E-11 1.3184E-07	A+++ 3.6408E-17 1.4687E-08 2.0086E-06
A++++ 3.6060E-36 7.4549E-23 8.2327E-17	A++++ 5.4929E-35 1.3671E-18 1.3397E-14
AV 3.9089E-61 1.5062E-39 4.9995E-30	AV 2.3855E-59 7.3965E-33 1.6288E-26
AVI 0. 2.4763E-61 1.3913E-47	AV1 0. 1.0695E-51 1.7500E-42
AVII 0. 0. 7.5315E-72	AVII 0. 1.0250E-77 1.3533E-64
AVIII 0. 0. 0.	AVIII 0. 0. 0.
·	
•	
81 - 1 005-00 N/50-W	
P1 = 1.00E+01 N/SC-M. US1= 7.80E+03 M/SEC	P1 = 1.00E+01 N/S0-M. US1= 8.20E+03 M/SEC
•	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	P1 = 1.00E+01 N/SO-M. US1= 8.20E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 T 4.3168E+01 7.0488E+01 7.8553E+01 RHO 1.4533E+01 8.6448E+01 1.0123E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 T 4.3168E+01 7.0488E+01 7.8553E+01 RHO 1.4533E+01 8.6448E+01 1.0123E+02 H 2.1533E+02 3.967ZE+02 4.6458E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 T. 4.3168E+01 7.0488E+01 7.8553E+01 RHO 1.4533E+01 8.6448E+01 1.0123E+02 H 2.1533E+02 3.9672E+02 4.6458E+02 A 6.9060E+00 1.0314E+01 1.0877E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.5986E+00 1.6558E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 T 4.3168E+01 7.0488E+01 7.8553E+01 RHO 1.4533E+01 8.6448E+01 1.0123E+02 H 2.1533E+02 3.9672E+02 4.6458E+02 A 6.9060E+00 1.0314E+01 1.0877E+01 S 1.4976E+00 1.6408E+00 1.658E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.5986E+00 1.6558E+00 Z 1.5343E+00 1.9595E+00 2.0475E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 T 4.3168E+01 7.0488E+01 7.8553E+01 RHO 1.4533E+01 8.6448E+01 1.0123E+02 H 2.1533E+02 3.9672E+02 4.6458E+02 A 6.9060E+00 1.0314E+01 1.0877E+01 S 1.4976E+00 1.6408E+00 1.6988E+00 Z 1.5996E+00 2.0161E+00 2.1180E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E*02 1.0814E*404 1.4692E*04 T 4.2047E*01 6.2845E*01 7.4002E*01 RHO 1.4040E*01 8.7813E*01 9.6963E*01 H 1.9486E*02 3.5859E*02 4.1959E*02 A 6.6615E*00 9.8461E*00 1.0500E*01 S 1.4602E*00 1.5986E*00 1.6558E*00 Z 1.5343E*00 1.9595E*00 2.0475E*00 GAME 6.8787E*01 7.8724E*01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 7.48568E+01 7.0488E+01 7.8553E+01 8.6448E+01 1.0123E+02 4.6458E+02 4.6458E+02 4.6458E+02 4.6458E+02 5.14976E+00 1.6348E+01 1.0877E+01 5.14976E+00 1.6408E+00 1.6988E+00 7.4854E-01 7.1112E-01 7.4854E-01 7.1112E-01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.5986E+00 1.6558E+00 Z 1.5343E+00 1.9595E+00 2.0475E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 T 4.3168E+01 7.0488E+01 7.8553E+01 RHO 1.4533E+01 8.6448E+01 1.0123E+02 H 2.1533E+02 3.9672E+02 4.6458E+02 A 6.9060E+00 1.0314E+01 1.0877E+01 S 1.4976E+00 1.6408E+00 1.6988E+00 Z 1.5996E+00 2.0161E+00 2.1180E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.5986E+00 1.0500E+01 S 1.5343E+00 1.9595E+00 2.0475E+00 GAME 6.8787E-01 7.2763E-01 U 2.2453E+01 3.5941E+00 3.7876E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2265E+04 1.6843E+04 T. 4.3168E+01 7.0488E+01 7.8553E+01 RHO 1.4533E+01 8.6446E+01 1.0123E+02 4.6458E+02 4.658E+02 4.6658E+02 5.1.4976E+00 1.0314E+01 1.0877E+01 5.1.4976E+00 1.6408E+00 1.6598E+00 7.1180E+00 GAME 6.9069E-01 7.4854E-01 7.1112E-01 U 2.3665E+01 3.9842E+00 3.9662E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E*02 1.0814E*404 1.4692E*04 T 4.2047E*01 6.2845E*01 7.4002E*01 RHO 1.4040E*01 8.7813E*01 9.6963E*01 H 1.9486E*02 3.5859E*02 4.1959E*02 A 6.6615E*00 9.8461E*00 1.0500E*01 S 1.4602E*00 1.5986E*00 1.6558E*00 Z 1.5343E*00 1.9595E*00 2.0475E*00 GAME 6.8787E*01 7.8724E*01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 7.48568E+01 7.0488E+01 7.8553E+01 8.6448E+01 1.0123E+02 4.6458E+02 4.6458E+02 4.6458E+02 4.6458E+02 5.14976E+00 1.6348E+01 1.0877E+01 5.14976E+00 1.6408E+00 1.6988E+00 7.4854E-01 7.1112E-01 7.4854E-01 7.1112E-01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0550E+01 S 1.4602E+00 1.5986E+00 1.6558E+00 C 1.5343E+00 1.9595E+00 2.0475E+00 GAME 6.8787E-01 7.8724E-01 7.2763E-01 U 2.2453E+01 3.5941E+00 3.7876E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.5986E+00 1.6558E+00 Z 1.5343E+00 1.9595E+00 2.0475E+00 GAME 6.8787E-01 7.8724E-01 7.2763E-01 U 2.2453E+01 3.5941E+00 3.7876E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 1.4692E+04 1.4692E+04 1.4692E+04 1.4692E+01 1.4040E+01 8.7813E+01 9.6963E+01 1.9466E+02 3.5859E+02 4.1959E+02 4.1959E+02 4.1959E+02 4.1959E+00 1.0500E+01 1.0	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 T. 4.3168E+01 7.0488E+01 7.8553E+01 RHO 1.4533E+01 8.6448E+01 1.0123E+02 4.6458E+02 4.6458E+02 4.6458E+02 4.6458E+02 1.0314E+01 1.0877E+01 S 1.4976E+00 1.6408E+00 1.6988E+00 Z 1.5996E+00 2.0161E+00 2.1180E+00 GAME 6.9069E-01 7.4854E-01 7.1112E-01 U 2.3665E+01 3.9842E+00 3.9662E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0550E+01 S 1.4602E+00 1.5986E+00 1.6558E+00 Z 1.5343E+00 1.9595E+00 2.0475E+00 GAME 6.8787E-01 7.8724E-01 7.2763E-01 U 2.2453E+01 3.5941E+00 3.7876E+00 SPECIES ————— MOLE FRACTIONS ————————————————————————————————————	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.5986E+00 1.0500E+01 S 1.4602E+00 1.9595E+00 2.0475E+00 GAME 6.8787E+01 7.2763E+01 U 2.2453E+01 3.5941E+00 3.7876E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 1.4692E+04 1.4692E+01 RHO 1.4040E+01 8.7813E+01 9.6943E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.5986E+00 1.6558E+00 2.0475E+00 GAME 6.8787E-01 7.8724E-01 7.2763E-01 U 2.2453E+01 3.5941E+00 3.7876E+00 SPECIES MOLE FRACTIONS	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.5986E+00 1.6558E+00 Z 1.5343E+00 1.9595E+00 2.0475E+00 GAME 6.8787E-01 7.8724E-01 7.2763E-01 U 2.2453E+01 3.5941E+00 3.7876E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 1.4692E+04 1.4092E+01 RH0 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.5986E+00 1.0500E+01 S 1.4602E+00 1.9595E+00 2.0475E+00 GAME 6.878TE-01 7.8724E-01 7.2763E-01 U 2.2453E+01 3.5941E+00 3.7876E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 1.4692E+01 RHO 1.4040E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.598E+00 1.6558E+00 2.0475E+00 GAME 6.8787E-01 7.8724E-01 7.2763E-01 U 2.2453E+01 3.5941E+00 3.7876E+00 SPECIES MOLE FRACTIONS	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 T. 4.3168E+01 7.0488E+01 7.8553E+01 RHO
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 1.4692E+04 T 4.2047E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.5986E+00 1.6558E+00 Z 1.5343E+00 1.9595E+00 2.0475E+00 GAME 6.8787E-01 7.8724E-01 7.2763E-01 U 2.2453E+01 3.5941E+00 3.7876E+00 SPECIES — MOLE FRACTIONS — MOLE FRACTIO	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 T. 4.3168E+01 7.0488E+01 1.0123E+02 H. 2.1533E+02 3.9672E+02 4.6458E+02 4.658E+02 4.658E+02 4.658E+02 4.658E+02 4.658E+02 4.676E+00 1.0314E+01 1.0877E+01 S 1.4976E+00 1.6408E+00 1.6598E+00 2.1180E+00 2.1180E+00 2.3665E+01 3.9842E+00 3.9662E+00 3.9662E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.0575E+02 1.0814E+04 1.4692E+04 1.4692E+01 RHO 1.4040E+01 6.2845E+01 7.4002E+01 RHO 1.4040E+01 8.7813E+01 9.6963E+01 H 1.9486E+02 3.5859E+02 4.1959E+02 A 6.6615E+00 9.8461E+00 1.0500E+01 S 1.4602E+00 1.598E+00 1.6558E+00 2.0475E+00 GAME 6.8787E-01 7.8724E-01 7.2763E-01 U 2.2453E+01 3.5941E+00 3.7876E+00 SPECIES MOLE FRACTIONS	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0035E+03 1.2285E+04 1.6843E+04 T. 4.3168E+01 7.0488E+01 7.8553E+01 RHO

P1 =	1.00E+01 N/SQ-M	. US1= 8-40E+0	3 M/SEC	P1 = 1	.00E+01 N/SQ-M	. US1= 8.80E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.0542E+03	1.3082E+04	1.7937E+04	P	1.1589E+03	1.4760E+04	2.0162E+04
T	4.3761E+01	7.3307E+01	8.03786+01	Ť	4.5042E+01	7.7538E+01	8.3630E+01
RHO	1.4750E+01	8.7247E+01	1.0357E+02	RHO	1.5118E+01	9.0221E+01	1.0804E+02
н	2.2594E+02	4.1664E+02	4.8746E+02	Н	2.4793E+02	4.5807E+02	5.3450E+02
A	7.0347E+00	1.0449E+01	1.10756+01	Ä	7.3091E+00	1.0789E+01	1.1477E+01
S	1.5167E+00	1.6610E+00	1.7198E+00	S	1.5555E+00	1.7013E+00	1.7620E+00
Z	1.6331F+00	2.0454E+00	2.1548E+00	Ž	1.7019E+00	2.1099E+00	2.2315E+00
GAME	6.9243E-01	7.2822E-01	7.0813E-01	GAME	6.9689E-01	7.1145E-01	7.0587E-01
U	2.4269E+01	4.1094E+00	4.0293F+00	u	2.5470E+01	4.2752E+00	4.1425E+00
SPECTES	·	- MOLE FRACTIONS	·	SPECIES		- MOLE FRACTIONS	
3. 6616.	•	- HOLE TRACTIONS		3/20123		- OCC TRACTIONS	•
E-	3.8768E-01	5.1109E-01	5.3592E-01	E –	4.1244E-01	5.2605E-01	5.5187E-01
A	2.2464E-01	5.2851E-03	2.8654E-03	A	1.7513E-01	3.3587E-03	2.1415E-03
A +	3.8767E-01	4.5617E-01	3.8651F-01	A +	4.1242E-01	4.1515E-01	3.4013E-01
A + +	4.9912E-06	2.7459E-G2	7.4691E-02	A++·	9.8275E-06	5.5444E-02	1.0583E-01
A+++	1.7143E-16	5.4716E-07	9.0775E-06	,A+++	8.69785-16	3.6478E-06	2.6867E-05
A++++	1.0650E-33	1.0853E-15	2.4339E-13	A++++	2.16235-32	3.9168E-14	2.0685E-12
AV	3.5482F-57	2.7516E-28	1.7419E-24	AV	4-11336-55	8.4748E-26	5.7148E-23
AVI	2.1107E-87	4.2067E-45	1.6362E-39	AVI	2.1865E-84	1.78446-41	2.8170E-37
IIVA	0.	2.0981E-68	2.4145E-60	AVII	J.	3.2046E-63	3.9931E-57
ITIVA	o.	0.	7.4826E-86	AVIII	0.	0.	1.6816E-81
P1 = 1	1.00E+01 N/S0~#	. US1= 8.60E+0	3 M/SEC	. P1 = 1	.00E+01 N/SQ-M	• US1= 9.00E+0	3 M/SEC
	MONTHE SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOUTHE CHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	1.1060E+03	1.3939E+04	1.9046E+04	P	1.2130E+03	1.5621E+04	2.1280E+04
Ť	4. 4383E+01	7.5590E+01	8.2027E+01	· T	4.5750E+01	7.9273E+01	8.5139F+01
RHO	1.4946E+01	8.8604E+01	1.0593E+02	, KHD	1.5263E+01	9.1891E+01	1.1005E+02
H	2.3681E+02	4.3710E+02	5.1075E+02	H	2.5930E+02	4.7951E+02	5.5870E+02
A	7.1687E+00	1.0612E+01	1. 1271E+01	Α	7.4576E+00	1.09726+01	1.1682E+01
ŝ	1.5360E+00	1.68125+00	1.7403E+00	Š	1.5751E+00	1.7215E+00	1.7834E+00
ž	1-6673E+00	2.0768E+00	2.1919F+00	ž	1.7370E+00	2.1444E+00	2.27125+00
GAME	6.9447E-01	7.1737E-01	7.0659E-01	GAME	6.9984E-01	7.0812E-01	7.05786-01
Ü	2.4870E+01	4.2034E+00	4.0873E+00	Ü	2.6065E+01	4.3371E+00	4.1961E+00
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
3. 2012.		NOCE TRACTIONS		3/ 201//3		HOEL TRACTIONS	
E- '	4.0022E-01	5.1849E-01	5.4377E-01	F -	4.24315-01	5.3368E-01	5.5971E-01
4	1.9956E-01	4.1050E-03	2.4723E-03	Α	1.5140E-01	2.8324E-03	1.8731E-03
A+	4.0021E-01	4.3633E-01	3.6376E-01	A +	4.2428F-01	3. 9330E-01	3.1717E-01
A++	6.9600E-06	4.1074E-02	8.9981E-02	A + +	· 1.4135E-05	7.01788-02	1.2121E-01
A+++	3.81228-16	1.5948E-06	1.6013E-05	A+++	2.0802E-15	7.1764E-06	4.2372E-05
A++++	4.7604E-33	8.1158E-15	7.41495-13	A++++	1.0697E-31	1.4454E-13	5.1659E-12
AV	3.9503E-56	6.8224F-27	1.0697E-23	AV	4.7349E-54	7.0101E-25	2.5816E-22
AVI	8.11186-86	4.5728E-43	2.3847E-38	AV I	5.05708-83	4.0243E-40	2.6571E-36
AVII	0.	1.7981E-65		AVII	0.	2.9749E-61	1.0539E-55
IIIVA	0.	0.	1.1596E-58 1.4716E-83	AVIII	0.	4.2108E-87	1.5476E-79

P1 = 1	.00E+01 N/S0-M	. US1= 9.20E+0	3 M/SEC	P1 = 1	1.00E+01 N/SQ-M	. US1= 9.60E+0	3 M/SEC
		•					
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	•	MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	1.2681E+03	1.6483E+04	2.2389E+04	Р	1.3814E+03	1.8158E+04	2.4519E+04
T	4.6522E+01	8.0862E+01	8.66 00E+01	Ţ	4.8366E+01	8.3751E+01	8.9438E+01
RHO	1.5379E+01	5.3502E+01	1.1183E+02	R HO	1.5495E+01	9.6176E+01	1.1446E+02
H-	2.7092E+02	5.0140E+02	5.8336E+02	H	2.9493E+02	5.4643E+02	6.3399E+02
Ä	7.6166E+00	1.1158E+01	1.1890E+01	A .:	7.9839E+00	1.1537E+01	1.2313E+01
Š	1.5950E+00	1.7419E+00	1.8050E+00	ŝ	1.6349E+00	1.7833E+00	1.8490E+00
ž	1.7724E+00	2.1801E+00	2.3118E+00	2	1.8433E+00	2.2543E+00	2.3950E+00
GAME	7.0356E-01	7.0626F-01	7.0612E-01	GAME	7.1499E-01	7.0498E-01	7.0781E-01
u u	2.6659E+01	4.3925E+00	4.2494E+00	· U	2.7833E+01	4.4919E+00	4.35675+00
ŭ	2.00572.01	1037232.00	, 1021312100	U	2110335401	4.47172400	4.55012400
	•			i .			
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	4.3580E-01	5.4131E-01	5.6743E-01	E-	4.5750E-01	5.5641E-01	5.8246E-01
Ā	1.2842E-01	2.4338E-03	1.6427E-03	Ā	8.5057E-02	1.8499E-03	1.2595E-03
Ä+	4.3576E-01	3.7120E-01	2.9449E-01	A+	4.5739E-01	3.2710E-01	2.5024E-01
A++	2.08556-05	8.5037E-02	1.3637E-01	A++	5.11456-05	1.1461E-01	1.6590E-01
A+++	5.3215E-15	1.2751E-05	6.4303E-05	A+++	4.7138E-14	3.3071E-05	1.3663E-04
A++++	6.1164E-31	4.4285E-13	1.20326-11	A++++	3.6213E-29	2.9302E-12	5.6768E-11
ÄV	7.4796E-53	4.2888E-24	1.03976-21	AV	5.4397E-50	9.45198-23	1.3673E-20
IVA	2.7217E-81	-5.6831E-39	2.0868E-35	AVI	6.2134E-77	5.55418-37.	
LIVA	0.	1.2719E-59	2.0318E-54	AVII			
AVIII	0.	5.9157E-85	8.1733E-78		0.	9.8733E-57	5.3946E-52
AVIII	•	J. 71 J.L-07	, 0011336-10	AVITI	0.	5.6246E-81	1.6890E-74
- 1 1		e .					
		.,			•		
14.1							
	.00E+01 N/SO-M	. US1= 9.40E+0	3 4/555				
P1 - 1	* AAE+AT W.20-W	. 031- 4-40540	3 H/3EC	. P1 * 1	1.00E+01 N/SQ-M	. US1= 9.80E+0	13 M/SEC
	HOWENC CHOCK	CTANDING CEICCH	055155750 611064				
P		STANDING SHOCK		•	MOVING SHOCK		REFLECTED SHOCK
	1.3243E+03	1.7335E+04	2.3475E+04	. <u>P</u>	1.4394E+03	1.8931E+04	2.5488F+04
T	4.7383E+01	8.2346E+01	8.8030E+01	Ţ	4.9528E+01	8.5092E+01	9.0830E+01
RHO	1.5459E+01	9.4961E+01	1.1333E+02	RHO	1.5474E+01	9.70418+01	1.1512E+02
н.	2.8280E+02	5-2372E+02	6.0846E+02	H	3.0730E+02	5.6948E+02	6.5989E+02
A.	7.7900E+00	1.1347E+01	1.2100E+01	<u>A</u> .	8.2089E+00	1.1728E+01	1.2529E+01
S	1.6149E+00:	1.7624E+00	1.8269E+00	. S	1.6548E+00	1.8044E+00	1-8714E+00
Z	1.8079E+00	2.2168E+00	2.3530E+00	Z	1.8781E+00	2.2926E+00	2.4374E+00
GAME	7.0840E-01	7.0532E-01	7.0682E-01	GAME	7.2444E-01	7.0508E-01	7.0908E-01
U	2.7249E+01	4.4436E+00	4.3027E+00	U	2.8411E+01	4.5381E+00	4-4108E+00
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E~	4.4688E-01	5.4890E-01	5.7502E-01	E-	4.6755E-01	5.6381E-01	5.8973E-01
Ä	1.0627E-01	2.1150E-03	1.4403E-03	Ä	6.4980E-02	1.6226E-03	1.0961E-03
Ã+	4.4682E-01	3.4908E-01	2.7216E-01	Ã÷	4.6738E-01	3.0537E-01	2.2881E-01
A++	3.1873E-05	9.9879E-02	1.51296-01	. Ä++	8.7779E-05	1.2914E-01	1.8017E-01
A+++	1.4917E-14	2.1087E-05	9.4790E-05	A+++	1.7250E-13	4.9786E-05	1.9348E-04
A++++	4.2366E-30	1.1941E-12	2.6646E-11	A++++	3.7188E-28	6.6649E-12	1.17236-10
AV	1.7642E-51	2.1616E-23	3.8829E-21	AV	1.6456E-48	3.6414E-22	4.5781E-20
AVI	4.0911E-79	6.1742E-38	1.4823E-34	ÂVI	3.8525E-76	4.0757E-36	5.8935E-33
AVII	0.	3.9511E=58	3.4760E-53	IIVA	0.	1.73746-55	7.3594E-51
IIIVA	0.	6.2385E-83	3.8685E-76			2.7086E-79	
44111	•	0.51015.03	300075-10	IIIVA	0.	2.70005-19	5.9240E-73
	•			•			

P1 = 1.00E+01 N/SC-M. US1= 1.00E+04 M/SEC	P1 = 1.00E+01 N/SO-M. US1= 1.04E+04 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4980E+03 1.9614E+04 2.6332E+04 7.5.0965E+01 8.6373E+01 9.2206E+01 RHO 1.5376E+01 5.7402E+01 1.1514E+02-H3 3.1991E+02 5.9281E+02 6.8607E+02 1.1919E+01 1.2748E+01 1.2748E+01 2.314E+00 2.4802E+00 2 2.314E+00 2.4802E+00 GAME* 7.3890E-01 7.0551E-01 7.1060E-01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6160E+03 2.0473E+04 2.7342E+04 T 5.5383E+01 8.8731E+01 9.4890E+01 RHU 1.4819E+01 9.5739E+01 1.1226E+02 H 3.4582E+02 6.3976E+02 7.3904E+02 A 5.2944E+00 1.2296E+01 1.3191E+01 S 1.7133E+00 1.8703E+00 1.9416E+00 Z 1.9689E+00 2.4100E+00 2.5667E+00 GAME 7.9220E-01 7.0705E-01 7.1440E-01
U 2.8978E+01 4.5823E+00 4.4653E+00	U 3.0059E+01 4.6591E+00 4.5931E+00
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E	E- 4.9212E-01 5.85C6E-01 6.1039E-01 A 1.6805E-02 1.0807E-03 6.8224E-04 A+ 4.9005E-01 2.4281E-01 1.6798E-01 A++ 1.0349E-02 1.7091E-01 2.2044E-01 A++ 7.0497E-11 1.4238E-04 5.1057E-04 A+++ 2.4363E-23 5.6438E-11 9.0600E-10 AV 7.7114E-41: 1.2268E-20 1.3829E-18 AVI 9.4694E-64 7.4199E-34 9.3629E-31 AVII 0. 3.1180E-52 1.0902E-47 AVIII 0. 5.8478E-75 1.1284E-68
P1 = 1.00E+01 N/SO-M+	P1 = 1.00E+01 N/SQ-M+ US1= 1.06E+04 M/SEC
The first term of the second state of the second second	The second of
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 1.5570E+03 2.0150E+04 2.6975E+04 5.2841E+01 8.7590E+01 9.3578E+01	POVING SHOCK / STANDING SHOCK REFLECTED SHOCK P 1.6750E+03 2.0631E+04 2.7471E+04 T: 5.8549E+01 - 8.9820E+01 9.6186E+01
RHO 1.5168E+01 9.7042E+01 1.1421E+02 H 3.3275E+02 61629E+02 7.1237E+02 A 8.8429E+00 1.2109E+01 1.2971E+01 S 1.6942E+00 1.8478E+0C 1.9179F+00	RHO 1.4380E+01 9.3773E+01 1.0946E+02 H 3.5911E+02 1.66325E+02 7.6516E+02 A 9.6407E+00 1.2482E+01 1.3411E+01 S 1.7317E+00 1.8933E+00 1.9557E+00
2.3706E+00	Z 1.9894E+00 2.4495E+00 2.6091E+00 GAME 7.9794E-01 7.0811E-01 7.1668E-01 U 3.0569E+01 4.6952E+00 4.6404E+00
SPECIES MOLE FRACTIONS	SPECIES
E- 4.8523E-01 5.7817E-01 6.0380E-01 A 2.9917E-02 1.2436E-03 8.0742E-04 A+ 4.3448E-01 1.8737E-01 1.8737E-01 A++ 3.7447E-04 1.5737E-01 2.0765E-01 A+++ 5.9125E-12 1.0286E-04 3.7452F-04	E-376 4.9735E-01 5.9175E-01 6.1672E-01 A 8.5764E-03 7.93331E-04 5.6880E-04 A+ 4.9081E-01 2.2308E-01 1.4938E-01 A++ 3.2680E-03 1.8404E-01 2.3263E-01 A+++ 1.1731E-09: 1.9356E-04 6.9144E-04
A++++ 2.5811E-25 2.9051E-11 4.7027E-10 AV 6.0362E-44 4.1020E-21 4.6422E-19 AVI 3.0879E-68 1.4575E-342 1.8554E-31 AVII 0. 2.9181E-53 1.0737E-48 AVIII 0. 2.5316E-76 5.0918E-70	A++++ 4.1328E+21: 1.0591E-10 1.7268E-09 AV 2.3803E+37 3.4565E-20 4.0507E-18 AVI 9.7187E-59 3.4263E-33 4.6209E-30 AVII 0. 2.8022E-51 1.0856E-46 AVIII 0. 1.3301E-73 2.5518E-67

P1 = 1	1.00E+01 N/50-M	. US1= 1.08E+0	4 M/SEC		Pl =	1.00E+01 N/SQ-M	. US1= 1.15E+0	4 M/SEC
	MOUTENO CHOCH					- <u> </u>		
	MOVING SHOCK		REFLECTED SHOCK			MOVING SHOCK		REFLECTED SHOCK
P '	1.73576+03	2.0921E+04	2.7787E+04		, Р	1.9665E+03	2.3572E+04	3.1204E+04
T	6.1539E+01	9.0975E+01	9.7624E+01		T	6.7747E+01	9.5963E+01	1.0456E+02
RHO	1.4049E+01	9.2368E+01	1.0732F+02		RHO ,	1.3930 €+01	9.3155E+01	1.0631E+02
н ,	3.7266F+02	6.8739E+02	7.9219E+02		н	4.2237E+02	7-7902E+02	8.9709E+02
A	9.7106E+00	1.2677E+01	1.3648E+01;		A	9.9783E+00	1.3473E+01	1.4674E+01
S	1.7494E+00	1.9160E+00	1.9897F+00		S	1.8088E+00	J. 9931E+00.	2.0716E+00
Z. ^	2.0075E+00	2.4897E+00	2.6521E+00		, Z	2.0838E+00	2-6368E+00	2.8073E+00
GAME	7.6325E-01	7.0947E-01	7.1944E-01		GAME	7.0525E-01	7.1733E-01	7.3356E-01
n.	3.1091E+01	4.7365E+00	4.6952E+00		U	3.3083E+01	4.9549E+00	4. 9823E+00
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SPEC IES		- MOLE FRACTIONS		* 4	SPECIE	s	- MOLE FRACTIONS	
E-	5.0189E-01	5.9834E-01	6.2294E-01	•	E	5.2010E-01	6.2075E-01	6.4378E-01
A	4.8034E-03	8.0418E-04	4.6879E-04		A `	1.7113E-03	4.5868E-04	2.0532E-04
A+	4.8473F-01	2.0363E-01	1.3119E-01		A+	4.3627E-01	1.3761E-01	7.1596E-02
A++	8.5781E-03	1.9696E-01	2.4446E-01		A++	4.1918E-02	2.4039E-01	2.8107E-01.
A+++	1.2625E-08	2.6230E-04	9.4629E-04		A+++	7.35588-07	7.9087E-04	3.3508E-03
A++++	3.2191E-19	1.9926E-10	3-4009E-09		A++++	6.0981E-16	2.1527E-09	5.7587E-08
AV	2.2005F-34	9.8487E-20	1.2643E-17		ĀV	3.3112E-29	5.4265E-18	1.5604E-15
AVI	1.8064E-54	1.6178E-32	2.5326E-29		ÄVI	5.4870E-47		3.5320E-26
IIVA	1.9997E-82	2.6132E-50	1.2802E-45		IIVA	7.9174E-72	1.5973E-46	4.6760E-41
	0.	2.7171E-72	7.4758E-66					
AVILI		5.11 itt= ik	1.41305-00	•	AVIII	0.	3.8794E-67	1.2024E-59
			and the second second					
					,			
				,		Te .		
				•				
P1 = 1	1.00E+01 N/SQ-M	. US1= 1.10E+0	4 M/SEC		P1 =	1.00E+01 N/SQ-M	. US1= 1.20E+0	4 M/SEC
•								
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.7990E+03	2-1478E+04			D	2.1439E+03	2.6138E+04	3.4671E+04
Ŧ	6.3852E+01	9.2286E+01	9.9299E+01	;	T	7.0483E+01	1.0041E+02	1.1149E+02
RHO	1.3898F+01	9.19236+01	1.0637E+02	•	RHO	1.4167E+01	9.4884E+01	1.0671E+02
н .	3.8651E+02	7.1256E+02	8.2065E+32		H	4.5988E+02	8.4925E+02	9.7997E+02
A'	9.7472E+00	1.2891E+01	1.3911E+01		A	1.0271E+01	1.4145E+01	1.5511E+01
ŝ	1.7666E+00	1.9389E+00	2.0133E+00		· ŝ ·	1.8510E+00	2.0474E+00	2.1304E+00
3 Z·	2.02726+00	2.5319E+00	2.6961F+00	•	7 .		2.7434E+00	2.9142E+00
GAME	7.3398E-01	7.1126E-01	7.2282E-01		GAME	2.1470E+00	7.2628E-01	7.4047E-01
GAME	3.1640E+01				GAME.	6.9709E-01		
U	3.10406+01	4.78816+00	4.7619F+00		U	3.4566E+01	5.1688E+00	5.2860E+00
					,			
SPECIES		- MOLE FRACTIONS			SPECIE	s,	- MOLE FRACTIONS	
E-	5.0671E-01	6.0504E-01	6.2910E-01		E -	5.3423E-01	6.3549E-01	6.5685E-01
Ā	3.1866F-03	6.8867E-04	3.8100E-04		Ā	1.1513E-03	2.7823E-04	9.1764E-05
Ã+	4.7350E-01	1.8387E-01	1.1327E-01		Ã÷	3.9500E-01	9.4815E-02	3.8823E-02
Ä++	1.6606F-02	2.1004E-01	2.5593E-01		Ä++	6.9613E-02	2.6758E-01	2.9469E-01
A+++	6.6057E-08	3.5978E-04	1.3221 €-03		A+++	3.0362E-06	1.8372E-03	9.5484E-03
A++++	6.7741E-18	3.8924E-10	7.0934E-09		A	9.1476E-15	1.4080E-08	6.5530E-07
AV	2.6468E-32	3.01856-19					1.3305E-16	
	1.79246-51			-	AV	2.5150E-27.		
AVI	3.4158E-78	8.6097E-32	1.6319E-28	**	AVI	2.8930E-44	8.1259E-28	1.9816E-23
AVII		2.9484E-49	1.9022E-44		AVII	4.9306E-68	1.7755E-43	4.6344E-37
IIIVA	0.	7.3813E-71	2.9253E-64		AVIII	0.	5.5273E-63	3.3337E-54

P1 = 1.00E+01 N/SQ-M, US1= 1.25E+04 M/SEC			4 M/SEC	P1 = 1.00E+01 N/SQ-M, US1= 1.35E+04 M/SEC			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK			
Ρ	2.3297E+03	2.8942E+04	3.8509E+04,	P 2.7250E+03 3.5042E+04 4.6915E+04			
Ť	7.2761E+01	1.0590E+02	1.1883E+02	7 7.6801E+01 1.1910E+02 1.3102E+02			
RHD	1.4459E+01	9.6034E+01	1.0770E+02	RHO 1.5040E+01 9.7244E+01 1.1191E+02			
H	4-99025+02	. 9.2264E+02	1.0664E+03	H 5.8210E+02 1.0784E+03 1.2489E+03			
Α .	1.0578E+01	1.4902E+01	1.61785+01,	A 1.1219F+01 1.6215E+01 1.7348F+01			
S	1.8935E+00	2.1011E+00	2.1860F+00	S 1.9803F+00 2.2053E+00 2.2949E+00			
ž	2.2145F+00	2.8459E+00	3.0091E+00	Z 2.3592F+00 3.0257E+00 3.1996E+00			
GAME	6.9441E-01	7.3685E-01	7.3200E-01	GAME 6.9467E-01 7.2959E-01 1: 7.1791E-01			
Ü	3.60625+01	5.4379E+00	5.5713E+00	U 3.9058F+01 6.0494E+00 6.0777E+00			
SPEC IES	<i>-</i>	- MOLE FRACTIONS		SPECIES MOLE FRACTIONS			
-	E 40435-01	4 40475-01	. 4 47475-01	E- 5.7613E-01 6.6950E-01 6.8746E-01			
F-	5.4843E-01 8.3943E-04	6.486ZE-0L	6.67675-01 4.0745E-05				
A		1.4685E-04					
A+	3.53038-01	5.8471E-02	2.0651E-02				
A++	9.7690E-02	2.8815E-01	2.8788F-01				
A+++	8.4742E-06	4.6182E-03	2-37456-02	A+++ ; 3.9696E-05 2.6768E-02 6.9789F-02 A++++ 1.5514E-12 7.7038E-06 1.0472E-06			
A++++	6-8358E-14	1.1538E-07	5.9373E-06				
AV	6.6180F-26	4.8989E-15	4.79956-12	AV 1.1315E-23 7.2542E-12 8.3246E-10			
IVA	3.6043E-42		6.86185-21	AVI 7.3947E-39 1.2233E-20 1.9701E-17			
AVII	5.4561F-65	4.8710E-40	2.3275E-33	AVII 3.4803F-60 5.0055F-33 2.8014F-28			
TIIVA	0.	2.67946-58	3.74695-49	AVIII 1.8877E-86 9.8612E-49 3.5166E-42			
PL = 1	.00F+01 N/SQ-M	. USI= 1.30E+0	4 M/SEC	P1 = 1.00E+01 N/S0-M, US1= 1.40E+04 M/SEC			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK			
P	2.5235E+03	3.1909E+04	4.2619E+04	P 2.93415+03 3.8344E+04 5.1353E+04			
T	7.48275+01	1.12475+02	1.2535E+02	7 7.8763E+01 1.2491E+02 1.3618E+02			
RHO	1.4757E+01	9.6524E+01	1.0958E+02	RHO 1.5295E+01 9.8640E+01 1.1431E+02			
н .	5.3976E+02	9.9900E+02	1.1563E+03	H 6.2603F+02 1.1610E+03 1.3441E+03			
Α.	1.0894E+01	1.5635F+01	1.67595+01	A 1.1557F+01 1.6741E+01 1.7953E+01			
S	1.9366 +00	2.1538E+00	2.2407E+00	S 2.0247E+00 2.2560E+00 2.3483E+00			
2	2.2854E+00	2.9394E+00	3.10275+00	Z 2.43555+00 3.1120E+00 3.2988E+00			
GAME	6.9393E-01	7.3945F-01	7.2220F-01	GAME 6.9632E-01 7.2097E-01 7.1741E-01			
Ü	3.75605+01	5-1507E+00	5.8432E+00	U 4.0553E+01 6.3005E+00 6.2834E+00			
SPECIES		- MOLE FRACTIONS		SPECIES MOLE FRACTIONS			
E-	5.6244E-01	6.5979E-01	6.7770E-01	E- 5.8941E-01 6.7866E-01 6.9686E-01			
A	6.3238E-04	6.8117E-05	2.0786E-05	A 3.6438F-04 1.7645E-05 7.2473E-06			
Ä+	3.1142F-01	3.2504E-02	1.2034E-02	A+ 2.3111F-01 1.1156F-02 5.0075E-03			
A++		J.E. J. C. T. C. C.	2.65095-01	A++ 1.7904E-01 2.6303E-01 2.0278E-01			
		2:9563E-01					
	1.2548F-01	2:9563E-01					
A+++	1.2548F-01 1.9407F-05	1.2007F-02	4.5122E-02	A+++ 7.6088F-05 4.7103E-02 9.5065E-02			
A++++	1.2548F-01 1.9407E-05 3.6015E-13	1.2007F-02 1.0861E-06	4.5122E-02 3.09565-05	A+++ 7.6088E-05 4.7103E-02 9.5065E-02 A++++ 6.0368E-12 3.3386E-05 2.7262E-04			
A++++	1.2548F-01 1.9407F-05 3.6015E-13 1.0210E-24	1.2007F-02 1.0861E-06 2.3561E-13	4.5122E-02 3.09565-05 9.0446E-11	A+++ 7.6088F-05 4.7103F-02 9.5065E-02 A++++ 6.0368E-12 3.3386E-05 2.7262E-04 AV 1.0987F-22 9.9026E-11 4.9755E-09			
A++++ AV	1.2548F-01 1.9407F-05 3.6015E-13 1.0210E-24 2.1368E-40	1.2007F-02 1.0861E-06 2.3561E-13 6.6099F-23	4.5122E-02 3.0956E-05 9.0446E-11 6.2453E-19	A+++ 7.6088F-05 4.7103F-02 9.5065E-02 A++++ 6.0368E-12 3.3386E-05 2.7262E-04 AV 1.0987F-22 9.9026E-11 4.9755E-09 AVI 2.2543F-37 6.8143F-19 3.2851E-16			
A++++	1.2548F-01 1.9407F-05 3.6015E-13 1.0210E-24	1.2007F-02 1.0861E-06 2.3561E-13	4.5122E-02 3.09565-05 9.0446E-11	A+++ 7.6088F-05 4.7103F-02 9.5065E-02 A++++ 6.0368E-12 3.3386E-05 2.7262E-04 AV 1.0987F-22 9.9026E-11 4.9755E-09			

P1 = 1	1.00E+01 N/SQ-M	, US1= 1.45E+0	4 M/SEC	P1 = 1	-00E+01 N/SQ-M	. US1= 1.55E+0	4 M/SEC
	professional contractions and the second		•	•		,	
1	MOVING SHOCK	STANDING SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
2	3.1504F+03	4.1777E+04	5.5898E+04	<u>P</u>	3.6042F+03	4.8746E+04	6-5082E+04
T RHO	8.0778E+01	1.3000E+02	1.4119E+02	7	8.52845+01	1.3935E+02	1.5163E+02
KHU	1.55136+01	1.0040E+02	1.1642E+02	RHO	1.5797E+01	1.03198+02	1.1890E+02
P	6.7156E+02 1.1913E+01	1.2466E+03 1.7275E+01	1.4424E+03	Η Δ ·	7.6735E+02	1.4265E+03	1.6491E+03
Š.	2.0696E+00	2.3060E+00	1.8583E+01 2.4017E+00	Š	1.2706F+01	1.8417E+01	1.99568+01
2	2.5140F+00	3.2007E+00	3.4008E+00	ž	2.1607E+00	2.4082E+00 3.3900E+00	2.5094E+00 3.6098E+00
GAME	6.9886F-01	7.1718E-01	7.1923E-01	GAME	2.6753F+00 7.0759F-01	7.1803E-01	7.2759F-01
V. "	4.2043F+01	6.5098E+00	6.4810E+00	U	4.4998E+01	6.8942E+00	6.8944E+00
	***************************************		0.70.00.00	٥.	4.49900 +01	0.07422.400	0.0744.700
•	• •						
SPECIES		- MOLE FRACTIONS		SPEC 1E S		 MOLE FRACTIONS 	
_							
E-	6.0223E-01	6.8757E-01	7-0595E-01	E-	6.2621E-01	7.0501E-01	7-2298E-01
A	2.71188-04		4.4487E-06	Α,	1.3438E-04	4.1410E-06	1.5141E-06
A+	1.92915-01	7.3193E-03	3.31946-03	A+	1.2157E-01	3.3282E-03	1.35345-03
A++	2.0445E-01 .		1.7015E-01	A++	2.5160E-01	1.7382E-01	1.0794E-01
A+++ //	1.40858-04	6.9840E-02	1-1995E-01	A+++	4.8146F-04	1.1730E-01	1.6516E-01
A++++	2.2288F-11	1.00786-04	6.1532E-04	A++++	3.2517F-10	5.4100E-04	2.5617E-03
AV	9.7655E-22	7.4181E-10	2.3703F-08	AV	9.0734F-20	1.7654E-08	4.07446-07
AVI	5.8237E-36	1.5616E-17	3.94225-15	IVA	5.2159E-33	2.3336E-15	3.9151E-13
AVIII	5.8410E-56	1.8414E-28	7.4256E-25	IIVA IIIVA	1.1358F-51	3.1389E-25	7.3703E-22
AVIII	1.2564E-80	1.8270E-42	1.9213E-37	WALLI	8.28718-75	5.3726E-38	2.8432E-33
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			•				
		•	•				•
1							
P1 = 1	1.00E+01 N/SQ-M	. US1= 1.50E+04	+ M/SEC	P1 = 1	.00E+01 N/SQ-M	US1= 1.60E+0	4 M/SEC
				•	•	•	
٥	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MONTHS SHOCK	STANDING SHOCK	REFLECTED SHOCK
							ACTEC TED SHOCK
7	3.3739F+03			D '			A. 0574E+04
	3.3739E+03 8.2920F+01	4.5266E+04	6.0500E+04	P T	3.8411E+03	5.2091E+04	6.9524E+04
	8.2920F+01	4.5266E+04 1.3474E+02	6.0500E+04 1.4622E+02	Ť	3.8411E+03 8.8016F+01	5.2091E+04 1.4391E+02	1.5737E+02
RHO H	8.2920F+01 1.5685F+01	4.5266E+04 1.3474E+02 1.0199E+02	6.0500E+04 1.4622E+02 1.1810E+02	T RHO	3.8411E+03 8.8016F+01 1.5832F+01	5.2091E+04 1.4391E+02 1.0380E+02	1.5737E+02 1.1898E+02
	8.2920E+01 1.5685E+01 7.1866E+02	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03	T RHO H	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02	5.2091E+04 1.4391E+02 1.0380E+02 1.5202E+03	1.5737E+02 1.1898E+02 1.7576E+03
	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01	T RHO	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+01	5.2091E+04 1.4391E+02 1.0380E+02 1.5202E+03 1.9022E+01	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01
RHO H A S	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00	T RHO H A S	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+01 2.2066E+00	5.2091E+04 1.4391E+02 1.0380E+02 1.5202E+03 1.9022E+01 2.4595E+00	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00
RHO H A S Z	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00 2.5942E+00	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01	T RHO H A	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+01 2.2066E+00 2.7564E+00	5.2091E+04 1.4391E+02 1.0380E+02 1.5202E+03 1.9022E+01 2.4595E+00 3.4870E+00	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00
RHO H A S	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.2937E+00	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00	T RHO H A S Z	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+01 2.2066E+00	5.2091E+04 1.4391E+02 1.0380E+02 1.5202E+03 1.9022E+01 2.4595E+00	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00
RHO H A S Z GAME	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00 2.5942E+00 7.0247E-01	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.2937E+00 7.1656E-01	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01	T RHO H A S Z Game	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+01 2.2066E+00 2.7564E+00 7.1497F-01	5.2091E+04 1.4391E+02 1.0380E+02 1.5202E+03 1.9022E+01 2.4595E+00 3.4870E+00 7.2102E-01	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E-01
RHO H A S Z GAME U	8.2920E+01 1.5685E+02 1.1866E+02 1.2293E+01 2.1150E+00 2.5942E+00 7.0247E-01 4.3526E+01	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.2937E+00 7.1656E+01 6.7073E+00	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00	T RHD H A S Z GAME U	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+01 2.2066E+00 2.7564E+00 7.1497F-01 4.6457E+01	5.2091E+04 1.4391E+02 1.0380E+02 1.5202E+03 1.9022E+01 2.4595E+00 3.4870E+00 7.2102E-01 7.0968E+00	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E-01 7.1237E+00
RHO H A S Z GAME	8.2920E+01 1.5685E+02 1.1866E+02 1.2293E+01 2.1150E+00 2.5942E+00 7.0247E-01 4.3526E+01	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.2937E+00 7.1656E-01	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00	T RHO H A S Z Game	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+01 2.2066E+00 2.7564E+00 7.1497F-01 4.6457E+01	5.2091E+04 1.4391E+02 1.0380E+02 1.5202E+03 1.9022E+01 2.4595E+00 3.4870E+00 7.2102E-01	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E-01 7.1237E+00
RHO H A S Z GAME U	8.2920E+01 1.5685E+02 1.1866E+02 1.2293E+01 2.1150E+00 2.5942E+00 7.0247E-01 4.3526E+01	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.2937E+00 7.1656E+01 6.7073E+00	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00	T RHD H A S Z GAME U	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+01 2.2066E+00 2.7564E+00 7.1497F-01 4.6457E+01	5.2091E+04 1.4391E+02 1.0380E+02 1.5202E+03 1.9022E+01 2.4595E+00 3.4870E+00 7.2102E-01 7.0968E+00	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E-01 7.1237E+00
RHO H S Z GAME U	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00 7.0247E+00 4.3526E+01	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.293TE+00 7.1656E+01 6.7073E+00	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00	T RHD H A S Z GAME U SPECIES	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+00 2.2066E+00 2.7564E+00 7.1497F-01 4.6457E+01	5-2091E+04 1-4391E+02 1-0380E+02 1-5202E+03 1-9022E+01 2-4595E+00 3-4870E+00 7-2102E-01 7-0968E+00	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E-01 7.1237E+00
RHO H S Z GAME U	8.2920E+01 1.5685E+02 1.1865E+02 1.2293E+01 2.1150E+00 2.5942E+00 7.0247E-01 4.3526E+01	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.2937E+00 7.1656F-01 6.7073E+00	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00	T RHD H A S Z GAME U SPECIES	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1-3170F+01 2.2066E+00 2.7564E+00 7.1497F-01 4.6457E+01	5.2091E+04 1.4391E+02 1.0380E+02 1.520ZE+03 1.902ZE+01 2.4595E+00 3.4870E+00 7.210ZE-01 7.0968E+00	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E-01 7.1237E+00
RHO H S Z GAME U SPECIES	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00 2.5942E+00 7.0247E-01 4.3526E+01 5	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.2937E+00 7.1656E+01 6.7073E+00 - MOLE FRACTIONS 6.9639E-01 6.6097E-06	6.0500E+04 1.4622E+02 1.1810E+02 1.5840E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00	T RHO H A S Z GAME U SPECIES E –	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+01 2.2066E+00 2.7564E+00 7.1497F-01 4.6457E+01	5-2091E+04 1-4391E+02 1-0380E+02 1-5202E+03 1-9022E+01 2-4595E+00 3-4870E+00 7-2102E-01 7-0968E+00	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E-01 7.1237E+00
RHO H S Z GAME U SPECIES E~ A A+	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00 2.5942E+00 7.0247E-01 4.3526E+01 6.1452E-01 1.9563E-04 1.5631E-01	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.2937E+00 7.1656F-01 6.7073E+00 - MOLE FRACTIONS 6.9639E-01 6.6097E-06 4.9260E-03	6.050E+04 1.4622E+02 1.1810F+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00 	T RHD H A S Z GAME U SPECIES E- A	3.8411E+O3 8.8016F+O1 1.5832F+O1 8.1760F+O2 1.3170F+O1 2.2066E+O0 2.7564E+O0 7.1497F-O1 4.6457E+O1 6.3721E-O1 8.5620E-O5 8.9135E-O5	5.2091E+04 1.4391E+02 1.0380E+02 1.5202E+03 1.9022E+01 2.4595E+00 3.4870E+00 7.2102E-01 7.0968E+00 - MOLE FRACTIONS 7.1322E-01 2.5563E-06 2.2255E-03	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 7.3287E-01 7.1237E+00 7.3068E-01 8.0459E-07
RHO H A S Z GAME U SPECIES E~ A A+ A++	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00 2.5942E+00 7.0247E-01 4.3526E+01 5	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 7.1656F-01 6.7073E+00 - MOLE FRACTIONS 6.9639E-01 6.6097E-06 4.9280E-03 2.0480E-01	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00 7.1458E-01 2.6831E-06 2.1725E-03 1.3859E-01	T RHO H A S Z GAME U SPECIES E- A A+	3.841 LE+O3 8.8016F+O1 1.5832F+O1 8.1760F+O2 1.3170F+O1 2.2066E+O0 2.7564E+O0 7.1497F-O1 4.6457E+O1 8.5620E-O5 8.9135E-O2 2.7263E-O1 9.3909E-O4	5-2091E+04 1-4391E+02 1-0380E+02 1-5202E+03 1-9022E+01 2-4595E+00 3-4870E+00 7-2102E-01 7-0968E+00 - MOLE FRACTIONS 7-1322E-01 2-5563E-06 2-2255E-03 1-4374E-01	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E+01 7.1237E+00 7.3068E-01 8.0459E-07 8.0736E-04 8.0654E-02
RHO H A S Z GAME U SPECIES E A A+- A++ A+++	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00 2.5942E+00 7.0247E-01 4.3526E+01 5.563E-04 1.9563E-04 1.5631F-01 2.2872E-01 2.5837E-04 8.2717F-11	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.2937E+00 7.1656F-01 6.7073E+00 - MOLE FRACTIONS 6.9639E-01 6.6097E-06 4.9280E-03 2.0480E-01 9.3622E-02 2.4855E-04	6.050E+04 1.4622E+02 1.1810F+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00 7.1458E-01 2.6831E-06 2.1725E-03 1.3859E-01 1.4338E-01 1.2723E-03	T RHO H A S Z GAME U SPECIES E- A A+ A++	3.8411E+03 8.8016F+01 1.5832F+01 8.1760F+02 1.3170F+01 2.2066E+00 2.7564E+00 7.1497F-01 4.6457E+01 8.5620E-05 8.9135E-02 2.7263E-01 9.3909E-04 1.4507E-09	5.2091E+04 1.4391E+02 1.0380E+02 1.520ZE+03 1.902ZE+01 2.4595E+00 3.4870E+00 7.210ZE-01 7.0968E+00 - MOLE FRACTIONS 7.132ZE-01 2.5563E-06 2.22Z55E-03 1.4374E-01 1.3973E-01 1.0817E-03	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 7.3287E-01 7.1237E+00 7.3068E-01 8.0459E-07 8.0736E-04 8.0654E-02 1.8289E-01 4.9711E-03
RHO H A S GAME U SPECIES E- A A+ A++ A+++ AV	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00 7.0247E-01 4.3526E+01 5 	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 7.1656E-01 6.7073E+00 - MOLE FRACTIONS 6.9639E-01 6.6097E-06 4.9280E-03 2.0480E-01 9.3622E-02	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00 7.1458E-01 2.6831E-06 2.1725E-03 1.3859E-01	T RHD H A S Z GAME U SPECIES E- A A+ A++ A+++	3.841 LE+O3 8.8016F+O1 1.5832F+O1 8.1760F+O2 1.3170F+O1 2.2066E+O0 2.7564E+O0 7.1497F-O1 4.6457E+O1 8.5620E-O5 8.9135E-O2 2.7263E-O1 9.3909E-O4	5-2091E+04 1-4391E+02 1-0380E+02 1-5202E+03 1-9022E+01 2-4595E+00 7-2102E-01 7-0968E+00 - MOLE FRACTIONS 7-1322E-01 2-5563E-06 2-2255E-03 1-4374E-01 1-3973E-01	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E-01 7.1237E+00 7.3068E-01 8.0459E-07 8.0459E-07 8.0654E-02 1.8289E-01
RHO H A S Z GAME U SPECIES E A A+- A+- A+- AVI	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00 2.5942E+00 7.0247E-01 4.3526E+01 5 	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 7.1656F-01 6.7073E+00	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00 7.1458E-01 2.6831E-06 2.1725E-03 1.3859E-01 1.4338E-01 1.2723E-03 9.9039E-08	T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++	3.8411E+O3 8.8016F+O1 1.5832F+O1 8.1760F+O2 1-3170F+O1 2.2066E+O0 2.7564E+O0 7.1497F-O1 4.6457E+O1 8.5620E-O5 8.9135E-O2 2.7263E-O1 9.3909E-O4 1.4507E-O9 1.1637E-O9	5-2091E+04 1-4391E+02 1-0380E+02 1-5202E+03 1-9022E+01 2-4595E+00 3-4870E+00 7-2102E-01 7-0968E+00 - MOLE FRACTIONS 7-1322E-01 2-5563E-06 2-2255E-03 1-4374E-01 1-3873E-01 1-0817E-03 6-8493E-08	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E+01 7.1237E+00 7.3068E-01 8.0459E-07 8.0736E-04 8.0654E-02 1.8289E-01 4.9711E-03 1.6168E-06
RHO H A S GAME U SPECIES E- A A+ A++ A+++ AV	8.2920E+01 1.5685E+01 7.1866E+02 1.2293E+01 2.1150E+00 7.0247E-01 4.3526E+01 5 6.1452E-01 1.9563E-04 1.5631E-01 2.2872E-01 2.2872E-01 8.2717E-11 8.9098E-21 1.5954E-34	4.5266E+04 1.3474E+02 1.0199E+02 1.3352E+03 1.7833E+01 2.3568E+00 3.2937E+00 7.1656E-01 6.7073E+00 - MOLE FRACTIONS 6.9639E-01 6.6097E-06 4.9280E-03 2.0480E-01 9.3622E-02 2.4655E-04 3.9959E-09 2.2043E-16	6.0500E+04 1.4622E+02 1.1810E+02 1.5440E+03 1.9242E+01 2.4547E+00 3.5036E+00 7.2271E-01 6.6820E+00 7.1458E-01 2.6831E-06 2.1725E-03 1.3859E-01 1.4338E-01 1.2723E-03 9.9039E-08 3.9344E-14	T RHD H A S Z GAME U SPECIES E- A A+ A++ A+++ AV AVI	3.841 LE+O3 8.8016F+O1 1.5832F+O1 8.1760F+O2 1.3170F+O1 2.2066E+O0 2.7564E+O0 7.1497F-O1 4.6457E+O1 8.5620E-O5 8.9135E-O2 2.7263E-O1 9.3909E-O4 1.4507E-O9 1.637E-D9 1.637E-D9	5-2091E+04 1-4391E+02 1-0380E+02 1-5202E+03 1-9022E+01 2-4595E+00 7-2102E-01 7-0968E+00 - MOLE FRACTIONS 7-1322E-01 2-5563E-06 2-2255E-03 1-4374E-01 1-0817E-03 6-8493E-08 2-0522E-14	1.5737E+02 1.1898E+02 1.7576E+03 2.0694E+01 2.5631E+00 3.7130E+00 7.3287E-01 7.1237E+00 7.3068E-01 8.0459E-07 8.0459E-07 8.0654E-02 1.8289E-01 4.9711E-03 1.6168E-06 3.7577E-12

P1 *	1.00E+01 N/SQ-M	, US1= 1.65E+0	4 M/SEC	,	Pl =	1.00E+OL N/SQ-M	• US1= 1.75E+0	4 M/SEC
	. *		,	•		•		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ.	4-0837F+03	5.5128E+04	7.3573E+04		P	4.5850E+03	6.0268E+04	8.0554E+04
7	9.1398F+01	1.4861E+02	1.6376E+02		Ť	1.0043F+02	1.5895E+02	1.76768+02
RHO		1.0348E+02	1.1771E+02		RHO `	1.5344E+01	1.0041E+02	1.13665+02
H	1.5750E+01			•	H			
	8-6941E+02	1.6163F+03	1.8695E+03			9.7764E+02	1.8145E+03	2.1012E+03
. .	1.3716F+01	1.9655F+01	2.1460F+01	•	A	1.4823E+01	2.0996E+01	2.2795E+01
Š.	2.2532E+00	2.5113E+00	2.6190E+00		S	2.3418E+00	2.6153E+00	2.72818+00
2	2.8368F+00	3.5847E+00	3.8168E+00		Ζ	2.9753E+00	3.7761 +00	4.0096E+00
GAME	7.2564E-01	7.2521E-01	7.3675E-01		GAME	7.3534F-01	7.3450E-01	7.3314E-01
Ų	, 4.7896E+01	7-29695+00	7.3743E+00		U	-5.0704F+01	7.7592E+00	7.8858E+00
-			•	•			•	
SPECIE	s	- MOLE FRACTIONS			SPECIE	S	- MOLE FRACTIONS	
€-	6.4749E-01	7.2104E-01	7.3800E-01		E-	6.6390E-01	7.3518E-01	7.5060E-01
Ā ·	4.8151F-05	1.5098E-06	3.8442E-07	٠.	A	1.06065-05	4.3491E-07	. 8.2982E-08
Δ+	5.9458E-02	1.4424E-03	4.45475-04	, .	A+	1.9745E-02	5.2711E-04	1.31015-04
	2.9099E-01	1.1503E-01	5-67205-02		A + +	3.0488F-01	6.5301E-02	2.6208E-02
A+++	2.0161F-03	1.6042E-01	1.9522E-01	•	A+++	1.1466E-02	1.9192E-01	1.9428E-01
A++++	8.2381E-09	2.0684E-03	9.6076E-03		A++++	4.8203F-07	7.0676E-03	2.8707E-02
ÄV	2.2612E-17	2.5100E-07	6.6355E-06		AV	2.5035E-14	3.2426E-06	7.95648-05
AVI	2.1339F-29	1.6767E-13	3.9001E-11		ÄVI.	8.4290E-25	1.11116-11	2.5878E-09
AVII	2.1190E-46	1.8898E-22	7.6362E-19		AVII	1.0228F-39	1.0397E-19	4.4886E-16
ÄVITI	1.41976-67	3.8926E-34	4.59475-29		AVIII	1.7876E-58	2.5630E-30	3.4906E-25
	1.41716-01	3107200 34	4639416-29		~ *** * *	2010100 30	2.30306-30	3.49006-23
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	•		:					
		• • •				•	:	
		-		-				
, e				. * *				
PI =	1.00E+01 N/SQ-M	. US1='1.70E+0	4 H/SEC		. PI =	1.00E+01 N/SQ-M	, US1= 1.80E+0	4 M/SEC
	٠,							
<i>.</i>	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
	4.3314E+03	5.7849E+04	7.7255E+04	:	P	4.8472E+03	6.3014E+04	8.4336E+04
- 1	9.5533F+01	1.5358E+02	1.7031E+02	-	Ť	1.0508F+02	1.64815+02	1.8300F+02
. RHO	1.55858+01	1.0231E+02	1.1588E+02		RHO	1.5187F+01	9.8846E+01	1.12276+02
, Kru	9.2275E+02	1.7143F+03	1.9840E+03	1 2	H	1.0342E+03	1.9180E+03	2.2224E+03
			2.2160F+01		Ä	1.5184E+01		
	1.43076+01	2.0318F+01 2.5632F+00	2.2180FF01 2.6735E+00		ŝ	2.38528+00	2.1667E+01 2.6666E+00	2.3405E+01 2.7821E+00
S	2.2976F+00			. 😘	2			
, Z	2.9092F+00	3.6815F+00	3.9144E+00		GAME	3.0374E+00	3.8680E+00	4-1047E+00
GAME	7.36498-01	7.3009E-01	7.3663E-01		U	7.2238E-01	7.3637E-01	7.2926E-01
. U	4.9308E+01	7.5221E+00	7-6304E+00	- '	U	.5-2114F+01	8.0188E+00	8.1450E+00
		.*	• •					
SPECI	ES	- MOLE FRACTIONS		7 -	SPEC 16	s	- MOLE FRACTIONS	
F-	6.5627E-01	7.2837E-01	7.44535-01		F-	6.7077E-01	7.4147E-01	7.5638E-01
<u> </u>	2.3832F-05	8.3985E-07	1.7815E-07		A.	5.1541F-06	2.1345E-07	4.0724E-08
•		8.9522E-04	2.4088E-04		A+ .	1.1391F-02	2.1343E-01 2.9747E-04	7.3967F-05
A+ A++	3.5851E-02				A++	2.94146-01		
	3.03158-01	8.8588E-02	3-8774E-02				4.6201E-02	1.78575-02
A+++	4.7045E-03	1.7829E-01	1.9908E-01		A+++	2.3693F-02	1.9937E-01	1-8238E-01
A++++	5.8576F-08	3.8546E-03	1 • 7347E = 02			2.83708-06	1.26526-02	4.3091E-02
AV	6.5553E-16	9.01726-07	2.4678E-05	,	AV.	5.5168E-13	1.1555E-05	2.16415-04
AVI	3.40668-27	1.35115-12	3.5315E-10		AVI	9.2426E-23	9.2323E-11	1-4670E-08
AVII	3.3318E-43	4.3508E-21	2-1577E-17		AVII	9.6076E-37	2.5622F-18	6.4556E-15
. AVIII	3.0770F-63	3.0759E-32	. 4.93426-27		IIIVA	2.0143F-54	2.2589E-28	1.4999E-23

P1 = 2	2.0CE+01 N/SQ-M	. US1= 2.00E+03	M/SEC	P1 = 2.0	0E+01 N/SQ-M	• US1= 2.40E+0	B M/SEC
	•						
-	MONTHS SHOCK	STANDING SHOCK	PEELECTED CHOCK	M	DATHE SHIPER	STANDING SHOCK	DEEL COTED CHOCK
	4.7899E+01		2.5674E+02		6.9088E+01		
						1.3292E+02.	3.5561E+02
· T			2.6601E+01		1.8172E+01	2.3331E+01,	3.0339E+01
RHD	3.7155E+00	. 5.2009E+00,	9.5839E+00	RHO	3.8017E+00	5.6876E+00	1.1391E+01
Н	1.2892E+01	1.6279E+01	2.8508E+01	Н	3.8017E+00 1.8183E+01 4.2499E+00		3.8277E+01
Α	3.5905E+00		4.6158E+00	Α .	4.2499E+00	. 4.5697E+00	4.7373E+00
S .	1.0929E+00	1.0934E+00	1.1049E+00	. S	1.1111E+00 ·	1.1118E+00	1.1241E+00
2	1.00000 + 00	1.0000E+00	1.0071E+00	Z	1.0000E+00	1.0017E+00	1.0290E+00
GAME	.9.9499E-01	9.9914E-01	7.9533E-01		9.9387E-01	8.93555-01	7.1890E-01
U	4.5391E+00	3.2312E+00	2.891 0E+00		5.4915E+30	3.6571E+00	2.7429E+00
U .	***************************************	3.03100.00	2007202.00	•	3643131.00		2.742 96 400
SPECIE	s	- MOLE FRACTIONS		SPEC LES	·	- MOLE FRACTIONS	
	3 30555 00	4.6197E-06	7 0000E-03	.E-	4.1517E-05	1.6669E-03 9.9667E-01 1.6669E-03	
	1 00005 - 00	0.00005-01	7.0009E-03 9.8600E-01 7.0009E-03	Ā		0.04475.01	2.8136E-02
Α .	1.0000E+00	4.6197E-06	7.86UUE-UI	A A+	9.9992E-01	4. 400 (E-01	9.4373E-01
A+	3.29555-08	4.6197E-06 9.8504E-25 3.2917E-55	7.0009E-03		4.1517E-05	1.6669E-03	2.8136E-02
A++ ;	1.8110E-31	9.8504E-25		A++	3.7069E-21	1.04706-13	フ・フン 40 ヒー L L
A+++	1.4697E-70	3.2917E-55	2.8202E-32	A+++	3.1574E-49	1.6656E-37	1.5843E-27
A+++	· J.	0.	5.9508E-63	A++++	0.	3.2994E-72	4.3193E-54
AV	· 0.	0.	0.	AV	0.	0.	2.1264E-89
AVI	· 0.	0.	0.	AVI	J	3.	0
IIVA	. 0.	0.	0.	1 I VA	0.	0.	0.
LIIVA	0.	0.	0.	IIIVA	j.	o.	0.
					••	• •	••
		•	•				
			. • • :	•		•	men in the second
			· •				
PI =	2.00E+01 N/S0-	. US1= 2.20E+03	M/SEC .	P1 = 2.0	0E+01 N/SQ-M	. US1= 2.60E+0	3 M/SEC
. :	+ * +	•					1.1.
· , ·	MONTHS SHOCK	STANDING SHOCK	DECLECTED CHOCK		יטענאיר נאטכא	STANDING SHOCK	DEELECTED CHOCK
_					INATING SHOCK	STANDING SHOCK	KEFLECTED SHOCK
<u>.</u>			3.0451E+02	<u>.</u>	8.1303E+01 2.1083E+01	1.7652E+02	4.13216+02
T	1.5416E+01	1.9662E+01	2.8719E+01				3.1702E+01
	3.7626E+00	5.3588E+00	1.0430E+01	RHO	3.8545E+00 .	6.5619E+00	1.2489E+01
н	1.54168+01	1.9696E+01 .	3.32375+01	H	2.1207E+01 4.4871E+00	2.9039E+01	4.3737E+01
A	3.9256E+00	4.3984E+00	4.6584E+00	Α	4.48715+00	4.5737E+00 1.1206E+00	4.8330E+00
S	1.1023E+30	1.10295+30	1.1142E+00	S	1.1193E+00 1.0005E+00	1.1206E+00	1.1345E+00
Z	1.0000E+30	1.0001E+00	1.0166E+00	Z	1.0005E+00	1.0088E+00	1.0437E+00
GAME	9.9962E-01	9.8381E-01	7.433GE-01	GAME	9.5452E-01	7.7764E-01	7.0596E-01
U	5.0155E+00	3.5093E+00	2.8221E+00	U	5.9785E+03	1.0088E+00 7.7764E-01 3.4993E+00	2.6634E+00
		in the second		16 617 F		••	No. 1 5
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
<u>.</u> .				_		• .	***
E-	1.8419E-06	1.3230E-04	1.6308E-02	E-	4.6738E-04		
A	1.0000E+00	9.9974E-01	9.6738E-01	Ā	9.9907E-01		9.1631E-01
A+	1.8419E-06	1.3230E-04	1.6308E-02	A+	4.6738E-34	8.6958E-03	4.1844E-02
A++	8.647 BE-26		7.6519E-12	A++	1.8259E-17	6.1834E-13	2.4495E-10
A+++		1.1609E-45		A+++	8.1735E-42	6.4027E-32	4.3467E-26
A++++	j	1.2698E-87	3.2564E-58	A+++	1.6799E-80	2.7540E-62	2.4710E-51
AV	9.	2.	0.	AV	0.	0.	2.3675E-85
IVA	ō.	o.	0.	ÄVI	0.	o.	0.
LIVA	ō.	o.	0.	AVII	0.	o.	o.
AVIII	j.	0.	0.	AVIII	ŏ.	ŏ.	0.
							7.7

p₁ = 20 N/ m²

P1 = 2.00E+01 N/SQ-M, US1= 2.80E+03 M/SEC

P1 = 2.00E+01 N/SQ-M,

US1= 3.20E+03 M/SEC

	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	9.5036E+01	2.3422E+02	4.8806E+02	P	1.2941E+02	4.1438E+02	7 • 405 5E + 02
Ţ	2.38198+01	2.9076E+01	3.2983E+01	f	2.7728E+01	3.26885+01	3.5572E+01
RHD	3.9794E+00	7.8829E+00	1.3943E+01	RHO	4.5907E+00	1.1953E+01	1.88125+01
н	2.4527E+01	3.5044E+01	4.9946E+01	н	3.2253E+01	4.9419E+01	6.5391E+01
A	4.5320E+00	4.6510E+00	4.944 0E+00	A	4.55945+00	4.4181E+00	5.2157E+00
Š	1.1271E+90	1.1298E+00	1.1458E+00	S	1.14305+00	1.1507E+00	1.1705E+00
Ž	1.0026E+00	1.0219E+00	1.0613E+00	2	1.0167E+00	1.0605E+00	1.1067E+00
GAME	8.6003E-01	7.2805E-01	6.9830E-01	GAME.	7.3743E-01	6.9773E-01	6.9104E-01
U	6.5009E+00	3.2729E+00	2.6146E+00	U	7.7676E+00	2.97285+00	2.5155E+00
			,				
SPEC IES		- MOLE FRACTIONS		SPEC 1E	s	- MOLE FRACTIONS	
5. 2.2.2	•	11000 1110113	1-			•	•
E-	2.64085-03	2.1400E-02	5.7729E-02	Ę-	1.6389E-02	5.7044E-02	9-6392E-02
A	9.9472E-01	9.5720E-01	8.8454E-01	A	9.6722E-01	8.8591E-01	8.0722E-01
Δ+	2.6408E-03	2.1400E-02	5.7729E-02	Ą+	1.6389E-02	5.7044E-02	9-6392E-02
A++	6.8840E-15	1.6260E-11	8.5513E-10	A++	4.32645-12	7.3368E-10	7.3087E-09
A+++	1.6141E-36	8.3441E-29	7.2596E-25	A+++	3.12136-30	4.6825F-25	9.7200E-23
A++++	1.0157E-69	1.7289E-57	5.2338E-49	A++++	1.26036-59	2.0372E-49	4.9872E-45
AV	0.	o.	2.4614E-81	AV) .	4.6379E-82	3.4664E-75
AVI	0.	0.	0.	LVA	0.	0.	0.
llva	o.	0.	0.	IIVA).	0.	0.
IIIVA	J.	0.	0.	11 IVA	J.	0.	0.
			,				
P1 = 2.	.00E+01 N/SU~M	, USI= 3.0JE+0	, 3 M/SEC	P1 =	2.00E+01 N/SQ-M	• USi≈ 3.40E+0	3 M/SEC
P1 = 2.	.00E+01 N/SU~M	, US1= 3.0JE+0	, 3 M/SEC	P1 =			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK"
p [:]	MOVING SHOCK 1.1113E+02	STANDING SHOCK 3.1204E+02	REFLECTED SHOCK 5.9575E+02	P	MOVING SHOCK 1.4917E+02	STANDING SHOCK 5.3834E+02	REFLECTED SHOCK 9.1612E+02
p [·] T	MOVING SHOCK 1.1113E+02 2.6031E+01	STANDING SHOCK 3.1204E+02 3.1009E+01	REFLECTED SHOCK 5.9575E+02 3.4275E+01	P T	MOVING SHOCK 1.4917E+02 2.9075E+01	STANDING SHOCK 5.3834E+02 3.4167E+01	REFLECTED SHOCK 9.1612E+02 3.6818E+01
P T RHD	MOVING SHOCK 1.1113E+02 2.6031E+01 4.2348E+00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00	REFLECTED SHOCK 5.9575E+92 3.4275E+01 1.6060E+01	P T RHO	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01	REFLECTED SHOCK** 9.1612E+02 3.6818E+01 2.1955E+01
P [°] T RHO H	MOVING SHOCK 1.1113E+02 2.6031E+01 4.2348E+00 2.8221E+01	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01	Р Т RHO H	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6548E+01	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.7479E+01	REFLECTED SHOCK
P T RHO H	MOVING SHOCK 1.1113E+02 2.6031E+01 4.2348E+00 2.8221E+01 4.5231E+00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00	REFLECTED SHOCK 5.9575e+02 3.4275e+01 1.6060E+01 5.7165e+01 5.0727E+00	P T RHO H	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6548E+01 4.6244E+00	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.7479E+01 5.0654E+00	REFLECTED SHOCK- 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00
P T RHD H A S	MOVING SHOCK 1.1111;E+02 2.6031E+01 4.2348E+00 2.8221E+01 4.5231E+00 1.1349E+00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.0727E+00 1.1576E+00	P T RHO H A S	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6546E+01 4.6244E+00 1.1516E+00	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.7479E+01 5.0654E+00 1.1625E+00	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00
P T RHD H A S	MOVING SHOCK 1.1115E+02 2.6031E+01 4.2348E+00 2.3221E+01 4.5231E+00 1.1349E+00 1.0031E+00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 1.0394E+00	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.0727E+00 1.1576E+00 1.0423E+0C	Р Т В Н А S I	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6544E+01 4.6244E+00 1.1516E+00 1.0274E+00	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.7479E+01 5.0654E+00 1.1625E+00 1.0838E+00	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00
P T RHD H A S Z GAME	MOVING SHOCK 1.1115:00 2.6031:00 4.2348:00 2.8221:00 4.5231:00 1.1349:00 1.0081:00 7.7962:00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+03 1.0394E+00 7.0744E-01	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.0727E+00 1.1576E+00 1.0823E+00 6.9369E-01	P T RHO H A S Z Game	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6546E+01 4.6244E+00 1.1516E+00 1.0274E+00 7.1590E-01	\$TANDING \$HOCK \$.3834E*02 3.4467E*01 1.4537E*01 5.7479E*01 5.0654E*00 1.1625E*00 1.0838E*00 6.928dE-01	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01
P T RHD H A S	MOVING SHOCK 1.1115E+02 2.6031E+01 4.2348E+00 2.3221E+01 4.5231E+00 1.1349E+00 1.0031E+00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 1.0394E+00	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.0727E+00 1.1576E+00 1.0423E+0C	Р Т В Н А S I	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6544E+01 4.6244E+00 1.1516E+00 1.0274E+00	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.7479E+01 5.0654E+00 1.1625E+00 1.0838E+00	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00
P T RHO H A S S Z GAME U	MOVING SHOCK 1.1113E+02 2.6031E+01 4.2348E+03 2.8221E+01 4.5231E+00 1.1349E+00 1.7041E+00 7.7962E-01 7.1059E+00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 1.0394E+00 7.0744E-01 3.1001E+00	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.0727E+00 1.1576E+00 1.0423E+00 6.9369E-01 2.5568E+00	P T RHD H A S Z GAME U	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6546E+01 4.6244E+00 1.1516E+00 1.0274E+00 7.1590E-01 8.4354E+00	\$TANDING \$HOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.0654E+00 1.1625E+00 1.0838E+00 6.928dE-01 2.8922E+00	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00
P T RHD H A S Z GAME	MOVING SHOCK 1.1113E+02 2.6031E+01 4.2348E+03 2.8221E+01 4.5231E+00 1.1349E+00 1.7041E+00 7.7962E-01 7.1059E+00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+03 1.0394E+00 7.0744E-01	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.0727E+00 1.1576E+00 1.0423E+00 6.9369E-01 2.5568E+00	P T RHO H A S J GAME U	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6544E+01 4.624E+00 1.1516E+00 1.0274E+00 7.1590E-01 8.4354E+00	STANDING SHOCK 5.3834E+02 3.4467E+01 1.4537E+01 5.7477E+01 5.0654E+00 1.1625E+00 1.0838E+00 6.9288E-01 2.8922E+00	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1343E+00 6.8969E-01 2.4889E+00
P T RHO H A S S Z GAME U	MOVING SHOCK 1.1113E+02 2.6031E+01 4.2348E+00 2.8221E+01 4.5231E+00 1.1349E+00 1.7962E-01 7.7962E-01 7.1059E+00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 1.0394E+00 7.0744E-01 3.1001E+00	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.0727E+00 1.1576E+00 1.0423E+00 6.9369E-01 2.5568E+00	P T RHO H A S L GAME U	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6548E+01 4.6244E+00 1.1516E+00 1.0274E+00 7.1590E-01 8.4354E+00	\$TANDING \$HOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.0454E+00 1.1625E+00 1.0838E+00 6.928dE-01 2.8922E+00 	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00
P T RHD H A S Z GAME U	MOVING SHOCK 1.1115E+02 2.6031E+01 4.2348E+00 2.8221E+01 4.5231E+00 1.1349E+00 1.7061E+00 7.7962E-01 7.1059E+00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 1.0394E+00 7.0744E-01 3.1001E+00	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.0727E+00 1.1576E+00 1.0423E+0C 6.9369E+01 2.5568E+00	P T RHD H A S Z GAME U SPECIE:	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.65<48E+01 4.6244E+00 1.1516E+00 1.0274E+00 7.1590E-01 8.4354E+00	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.7479E+01 5.0654E+00 1.1625E+00 1.0838E+00 6.9288E-01 2.8922E+00 - MOLE FRACTIONS 7.7347E-02 8.4531E-01	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00
P T RHD H A S Z GAME U SPECIES	MOVING SHOCK 1.1113E+02 2.6031E+01 4.2348E+00 2.8221E+01 4.5231E+00 1.1349E+00 1.7962E-01 7.7962E-01 7.1059E+00	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 1.0394E+00 7.0744E-01 3.1001E+00 - MOLE FRACTIONS 3.7942E-02	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.0727E+00 1.1576E+00 1.0423E+00 6.9369E-01 2.5568E+00	P T RHO H A S I GAME U SPECIE: E- A A+	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6546E+01 4.6244E+00 1.1516E+00 1.0274E+00 7.1590E-01 8.4354E+00	\$TANDING \$HOCK \$.3834E*02 3.4167E*01 1.4537E*01 5.0654E*00 1.1625E*00 1.0838E*00 6.928dE*01 2.8922E*00 - MOLE FRACTIONS 7.7347E*02 8.4531E*01 7.7347E*02	REFLECTED SHOCK- 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00
P T RHD H A S Z GAME U SPECIES E- A	MOVING SHOCK 1.1113 E+02 2.6031E+01 4.2348E+01 4.5231E+01 4.5231E+00 1.1349E+00 1.7962E-01 7.1059E+00 8.0506E-03 9.8340E-01	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 7.0744E-01 3.1001E+00 - MOLE FRACTIONS 3.7942E-02 9.2412E-01	REFLECTED SHOCK 5.9575e+02 3.4275e+01 1.6060E+01 5.7165e+01 5.0727e+00 1.1576e+00 1.0823e+00 6.9369E+01 2.5568E+00	P T RHD H A S Z GAME U SPECIE E- A A+ A++	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.65*48E+01 4.6244E+00 1.1516E+00 7.1590E-01 8.4354E+00	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.7479E+01 5.0654E+00 1.1625E+00 1.0838E+00 6.9286E-01 2.8922E+00 - MOLE FRACTIONS 7.7347E-02 8.4531E-01 7.7347E-02 2.6205E-09	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00
P T RHD H A S G G G G G G G G G G G G G G G G G G	MOVING SHOCK 1.1112:402 2.6031E+01 4.2348E+00 2.8221E+01 4.5231E+00 1.1349E+00 1.7962E-01 7.7962E-01 7.1059E+00 8.0506E-03 9.8340E-01 8.0506E-03	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 1.0394E+00 7.0744E-01 3.1001E+00 - MOLE FRACTIONS 3.7942E-02 9.2412E-01 3.7942E-02	REFLECTED SHOCK 5.9575e+02 3.4275e+01 1.6060E+01 5.7165e+01 5.0727e+00 1.1576e+00 1.0823e+00 6.9369E+01 2.5568E+00	P T RHO H A S GAME U SPECIE E- A A+ A++ A+++	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6546E+01 4.6246E+00 1.0274E+00 7.1590E-01 8.4354E+00 2.6655E-02 2.6655E-02 2.5517E-11 1.6892E-28	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.1479E+01 5.0654E+00 1.1625E+00 1.0838E+00 6.9288E-01 2.8922E+00 - MOLE FRACTIONS 7.7347E-02 8.4531E-01 7.7347E-02 8.6357E-24	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00
P T RHD H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 1.1113E+02 2.6031E+01 4.2348E+00 4.5231E+00 1.1349E+00 1.7962E-01 7.7962E-01 7.1059E+00 8.0506E-03 9.8390E-01 8.0506E-03 3.4272E-13	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 7.0744E-01 3.1001E+00 - MOLE FRACTIONS 3.7942E-02 9.2412E-01 3.7942E-02 1.4347E-10	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 1.576E+00 1.0623E+00 6.9369E-01 2.5568E+00 7.6026E-02 8.4795E-01 7.6026E-02 2.6338E-09	P T RHD H A S I GAME U SPECIE E- A A+ A++ A+++	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6546E+01 4.6244E+00 1.1516E+00 1.0274E+00 7.1590E-01 8.4354E+00 2.6655E-02 9.4669E-01 2.6655E-02 2.5517E-11 1.6892E-28 2.1238E-56	\$TANDING \$HOCK	REFLECTED SHOCK- 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00 1.1765E-01 7.6669E-01 1.7929E-08 7.8787E-22 2.8625E-43
P T RHO H A S Z GAME U SPECIES E - A A + A + + + A + + + + + + + + + + +	MOVING SHOCK 1.1113E+02 2.603E+01 4.2348E+03 2.322E+01 4.523E+00 1.1349E+00 1.7962E-01 7.1059E+00 8.0506E-03 9.8390E-01 8.0506E-03 3.4272E-13 1.0322E-32	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.0394E+00 7.0744E-01 3.1001E+00 MOLE FRACTIONS 3.7942F-02 9.2412E-01 3.7942E-02 1.4347E-10 1.0792E-26	REFLECTED SHOCK 5.9575e+02 3.4275e+01 1.6060E+01 5.7165e+01 5.7165e+00 1.1576e+00 1.0423e+00 6.9369E+01 2.5568E+00 	P T RHD H A S Z GAME U SPECIE E- A A++ A+++ A+++	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.65×48E+01 4.6244E+00 1.1516E+00 1.1516E+00 7.1590E-01 8.4354E+00 3.4354E+00 2.6655E-02 9.4669E-01 2.6655E-02 2.5517E-11 1.6892E-28 2.1238E-56 0.	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.0454E+00 1.1625E+00 1.0838E+00 6.9286E-01 2.8922E+00 - MOLE FRACTIONS 7.7347E-02 8.4531E-01 7.7347E-02 2.6205E-09 8.6357E-24 4.8861E-47 2.4927E-78	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00 1.1765E-01 7.6669E-01 1.7765E-01 1.7929E-08 7.8787E-22 2.8625E-43 4.3435E-72
P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++	MOVING SHOCK 1.1115:02 2.6031:01 4.2348:00 2.8221:01 4.5231:00 1.1349:00 1.7962:00 7.7962:00 7.1059:00 8.0506:03 9.8390:01 8.0506:03 3.4272:01 1.032:23 4.2645:02 4.2645:02	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 1.0394E+00 7.0744E-01 3.1001E+00 - MOLE FRACTIONS 3.7942E-02 9.2412E-01 3.7942E-02 1.4347E-10 1.0792E-26 1.2991E-54	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.7165E+00 1.1576E+00 1.0623E+00 6.9369E-01 2.9568E+00 7.6026E-02 8.4795E-01 7.6026E-02 2.6338E-09 9.2749E-24 5.8258E-47	P T RHO H A S I GAME U SPECIE E- A A+ A++ A+++ AV	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6546E+01 4.6246E+00 1.151.6E+00 1.0274E+00 7.1590E-01 8.4354E+00 2.6655E-02 9.4669E-01 2.6655E-02 2.5517E-11 1.6892E-28 2.1238E-56 0.	STANDING SHOCK 5.3834E+02 3.4\67E+01 1.4537E+01 5.0454E+00 1.1625E+00 1.1625E+00 1.2.8922E+00 - MOLE FRACTIONS 7.7347E-02 8.4531E-01 7.7347E-02 2.6205E-09 8.6357E-24 4.8861E-47 2.4927E-78 0.	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00
P T RHD H A S Z GAME U SPECIES E-A A+A A++A A+++A A++++A A++++A A++++A A++++A A++++A A+++++A A+++++A A+++++A A+++++A A++++++	MOVING SHOCK 1.1113 = 02 2.6031 = 01 4.2348 = 00 2.8221 = 01 4.5231 = 00 1.1349 = 00 7.7962 = 01 7.1059 = 00 8.0506 = 03 9.8390 = 01 8.0506 = 03 3.427 2 = 13 1.0322 = 32 4.2685 = 63 3.	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 7.0744E-01 3.1001E+00 MOLE FRACTIONS 3.7942F-02 9.2412E-01 3.7942E-02 1.4347E-10 1.0792E-26 1.2991E-54 6.8528E-86	REFLECTED SHOCK 5.9575E+02 3.4275E+01 1.6060E+01 5.7165E+01 5.7165E+00 1.1576E+00 1.0823E+00 6.9369E+01 2.5568E+00 7.6026E+02 8.4795E+01 7.6026E+02 2.6338E+09 9.2749E+24 5.8258E+47 2.5694E+78	P T RHD H A S Z GAME U SPECIE E- A A+ A++ A+++ AV AVI AVII	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6546E+01 4.6244E+00 1.1516E+00 1.0274E+00 7.1590E-01 8.4354E+00 2.6655E-02 9.4669E-01 2.6655E-02 2.5517E-11 1.6892E-28 2.1238E-56 0.	STANDING SHOCK 5.3834E+02 3.4167E+01 1.4537E+01 5.0654E+00 1.1625E+00 1.0838E+00 6.9288E-01 2.8922E+00 - MOLE FRACTIONS 7.7347E-02 8.4531E-01 7.7347E-02 2.6205E-09 8.6357E-24 4.8861E-47 2.4927E-78 0.	REFLECTED SHOCK- 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00 1.1765E-01 7.6669E-01 1.17959E-08 7.8187E-22 2.8625E-43 4.3435E-72 0.
P T RHD H A S Z GAME U SPECIES E-A A + A + + + + A + + + + A V I	MOVING SHOCK 1.1113E+02 2.603E+01 4.2348E+00 2.3221E+01 4.523E+00 1.1349E+00 1.7962E-01 7.1059E+00 	STANDING SHOCK 3.1204E+02 3.1009E+01 9.6811E+00 4.1849E+01 4.7752E+00 1.1398E+00 1.0394E+00 7.0744E-01 3.1001E+00 - MOLE FRACTIONS 3.7942E-02 9.2412E-01 3.7942E-02 1.4347E-10 1.0792E-26 1.2991E-54 6.8528E-86 0.	REFLECTED SHOCK 5.957 5E+02 3.427 5E+01 1.6060E+01 5.716 5E+01 5.7027E+00 1.1576E+00 1.0823E+00 6.9369E+01 2.5568E+00 7.6026E+02 8.4795E+01 7.6026E+02 2.6338E+09 9.2749E+24 5.8258E+47 2.5694E+78 0.	P T RHO H A S I GAME U SPECIE E- A A+ A++ A+++ AV	MOVING SHOCK 1.4917E+02 2.9075E+01 4.9937E+00 3.6546E+01 4.6246E+00 1.151.6E+00 1.0274E+00 7.1590E-01 8.4354E+00 2.6655E-02 9.4669E-01 2.6655E-02 2.5517E-11 1.6892E-28 2.1238E-56 0.	STANDING SHOCK 5.3834E+02 3.4\67E+01 1.4537E+01 5.0454E+00 1.1625E+00 1.1625E+00 1.2.8922E+00 - MOLE FRACTIONS 7.7347E-02 8.4531E-01 7.7347E-02 2.6205E-09 8.6357E-24 4.8861E-47 2.4927E-78 0.	REFLECTED SHOCK 9.1612E+02 3.6818E+01 2.1955E+01 7.4263E+01 5.3646E+00 1.1843E+00 1.1333E+00 6.8969E-01 2.4889E+00

p₁ = 20 N/ m²

P1 = 2	.00E+01 N/Su-M	. US1= 3.60E+0	3 M/SEC		P1 = 2	-00E+01 N/SQ-M	, US1= 4.00E+0	3 M/SEC
		, 031- 31002-0	, moco				7 031- 4000270	. ,
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ.	1.7037E+02	6.8787E+02	1.1237E+03		Ρ.	2.1675E+02	1.0636E+03	1.6368E+03
7	3.0206E+01	3.5530E+01 ·	3.8021E+01		7	3.2081E+01	3.8004E+01	4.0320E+01
RHD	5.4246E+00	1.7452E+01	2.5432E+01		RHO	6.3235E+00	2.4006E+01	3.3127E+01
н	4-1103E+01	6.6094E+01	8.3759E+01		H	5.0965E+01	8.4790E+01	1.0446E+02
Ä	4.70175+20		5.5183E+00		Ä			
-		5.2164E+00				4.8701E+00	5.5243E+00	5.8373E+00
	1.1607E+00	1.1754E+00	1-1991E+00		s ·	1.1805E+00	1.2039E+00	1.2312E+00
Z	1.0398E+00	1.1094E+00	1.1621E+00		Z	1.0684E+30	1.1659E+00	1.2254E+00
GAME	7.0388E-01	6.9037E-01	6.8917E-01		GAME	6.9195E-01	6.8876E-01	6.8963E-01
U	9.1067E+00	2.8212E+00	2.4727E+00		U j	1.0440E+01	2.7437E+00	2.4649E+00
SPECIES		- MOLE FRACTIONS		•	SPEC IES		- MOLE FRACTIONS	/
E-	3.8247E-02	9.8580E-02	1.3952E-01		E-	6.4055E-02	1.4227E-01	1.8395E-01
Ā.	. 9.2351E-01	. 8.0284E-01	7.2096E-01		Ā	8.7189E-01	7.1545E-01	/ 6.3209E-01
Ā+	3.8247E-02	9.8580E-02	1.39526-01		Ä+	6.4055E-02	1.4227E-01	1.8395E-01
A++ .					A++			
A+++	9.8088E-11	7.5675E-09	3.9952E-08			7.1851E-10	4.1653E-08	1.5988E-07
	3-4425E-27	1.0052E-22	5.0916E-21		A+++	3.0288E-25	5.4424E-21	1.3481E-19
A++++	1.2763E-53	5.2158E-45	9.3482E-42		A++++	6.1266E-50	1.0855E-41	5.0855E-39
AV .	3.1137E-89	5.2134E-75	7.7852E-70		AV .	5.2466E-83	1.4935E-69	3-21 00E-65
AVI	0.	0.	, 0.		AVI	o.	0.	0.
AVII	0.	0.	0.		AVII	0.	0.	0.
IIIVA	0.	0	0.		IIIVA	o.	0.	0.
						,		
	**	•						
		•						
P1 = 2	-00E+01 N/SQ-M	, US1= 3.80E+0	3 M/SEC		P1 = 2	-00E+01 N/SQ-M	. US1= 4.20E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.9291E+02	8.6200E+02	. 1.3637E+03		P	2.41855+02	1.2904E+03	1.9424E+03
T	3.1194E+01	3.6798E+01	3.9186E+01		T	3.2895E+01	3.9152E+01	4.1422E+01
ŔHĐ	5.8702E+00	2.0608E+01	2.9173E+01		RHO	6.7796E+00	2.7544E+01	3.7233E+01
н	4.5909E+01	7.5188E+01	9.3830E+01		н	5.6268E+01	9.4836E+01	1.1553E+02
Ä	4.7845E+30	5.3691E+00	5.6759E+00		Ä	4.9572E+00	5.6808E+00	6.0011E+00
ŝ					Ŝ			
	1.1703E+00	1.1892E+00	. 1.2147E+00			1.1911E+30	1.2195E+00	1.2483E+00
7	1.3535E+00	1.1367E+00	1.1929€+00		2	1.0845E+00	1.1966E+00	1.2594E+00
GAME	6.96>9E-01	6.8917E-01	6.8921E-01		GAME	6.8888E-01	6.8886E-01	6.9035E-01
U			2.4651F+00		U	1.1100E+01	2.7402E+00	2.4580E+00
SPEC IES	9.77576+00	2.7800E+00	20 10521 100		•			201000
		- MOLE FRACTIONS			SPECIES		- MOLE FRACTIONS	
		- MOLE FRACTIONS			SPECIES		- MOLE FRACTIONS	~
E-	5.07898-02	- MOLE FRACTIONS	1.6169E-01		SPECIES	7.78816-02	- MOLE FRACTIONS 1.6429E-01	2.05976-01
E –	5.0789£-32 8.9842£-01	- MOLE FRACTIONS 1.2027E-01 7.5945E-01	1.6169E-01 6.7662E-01		SPECIES E- A	7.7881E-02 8.4424E-01	- MOLE FRACTIONS 1.6429E-01 6.7143E-01	2.0597E-01 5.8806E-01
E- A A+	5.07896-02 8.98426-01 5.07896-02,	- MOLE FRACTIONS 1.2027E-01 7.5945E-01 1.2027E-01	1.6169E-01 6.7662E-01 1.6169E-01		SPECIES E- A A+	7.7881E-02 8.4424E-01 7.7881E-02	- MOLE FRACTIONS 1.6429E-01 6.7143E-01 1.6429E-01	2.0597E-01 5.8806E-01 2.0597E-01
E- A A+	5.07896-02 8.98426-01 5.07896-02 2.90266-10	- MOLE FRACTIONS 1.2027E-01 7.5945E-01 1.2027E-01 1.8739E-08	1.6169E-01 6.7662E-01 1.6169E-01 8.2474E-08		SPECIES E- A A+	7.7881E-02 8.4424E-01 7.7881E-02 1.5705E-09	- MOLE FRACTIONS 1.6429E-01 6.7143E-01 1.6429E-01 8.4671E-08	2.0597E-01 5.8806E-01 2.0597E-01 2.9346E-07
E- A A+ A++	5.07896-02 8.9842E-01 5.07896-02, 2.90268-10 4.00496-26	- MOLE FRACTIONS 1.2027E-01 7.5945E-01 1.2027E-01 1.8739E-08 8.3459E-22	1.6169E-01 6.7662E-01 1.6169E-01		SPECIES E-A A+A++	7.7881E-02 8.4424E-01 7.7881E-02 1.5705E-09 1.7537E-24	- MOLE FRACTIONS 1.6429E-01 6.7143E-01 1.6429E-01 8.4871E-08 2.8903E-20	2.0597E-01 5.8806E-01 2.0597E-01 2.9346E-07 5.6733E-19
E- A A+	5.07896-02 8.98426-01 5.07896-02 2.90266-10	- MOLE FRACTIONS 1.2027E-01 7.5945E-01 1.2027E-01 1.8739E-08	1.6169E-01 6.7662E-01 1.6169E-01 8.2474E-08		SPECIES E- A A+	7.7881E-02 8.4424E-01 7.7881E-02 1.5705E-09	- MOLE FRACTIONS 1.6429E-01 6.7143E-01 1.6429E-01 8.4671E-08	2.0597E-01 5.8806E-01 2.0597E-01 2.9346E-07
E- A A+ A++	5.07896-02 8.9842E-01 5.07896-02, 2.90268-10 4.00496-26	- MOLE FRACTIONS 1.2027E-01 7.5945E-01 1.2027E-01 1.8739E-08 8.3459E-22	1.6169E-01 6.7662E-01 1.6169E-01 8.2474E-08 2.8285E-20		SPECIES E-A A+A++	7.7881E-02 8.4424E-01 7.7881E-02 1.5705E-09 1.7537E-24	- MOLE FRACTIONS 1.6429E-01 6.7143E-01 1.6429E-01 8.4871E-08 2.8903E-20	2.0597E-01 5.8806E-01 2.0597E-01 2.9346E-07 5.6733E-19
E- A A+ A++ A+++	5.07898-J2 8.98428-01 5.07898-J2 2.90268-10 4.00498-26 1.46988-51	- MOLE FRACTIONS 1.2027E-01 7.5945E-01 1.2027E-01 1.8739E-08 8.3459E-22 3.0152E-43 4.3825E-72	1.6169E-01 6.7662E-01 1.6169E-01 8.2474E-08 2.6265E-20 2.6330E-40 2.7436E-67		SPECIES E- A A+ A++ A+++	7.7881E-02 8.4424E-01 7.7881E-02 1.5705E-09 1.7537E-24 1.6048E-48 9.4028E-81	- MOLE FRACTIONS 1.6429E-01 6.7143E-01 1.6429E-01 8.4871E-08 2.8903E-20 2.5002E-40	2.0597E-01 5.8806E-01 2.0597E-01 2.9346E-07 5.6733E-19 7.6146E-38
E- A A+ A++ A+++ AV AVI	5.07898-02 8.98428-01 5.07898-02, 2.90268-10 4.00498-51 1.52728-85	- MOLE FRACTIONS 1.2027E-01 7.5945E-01 1.2027E-01 1.8739E-08 8.3459E-22 3.0152E-43 4.3825E-72 0.	1.6169E-01 6.7662E-01 1.6169E-01 8.2474E-08 2.8285E-20 2.6330E-40 2.7436E-67 0.		SPECIES E- A A+ A++ A+++ A+++ AV AVI	7.7881E-02 8.4424E-01 7.7881E-02 1.5705E-09 1.7537E-24 1.6048E-48 9.4028E-81	1.6429E-01 6.7143E-01 1.6429E-01 8.4871E-08 2.8903E-20 2.5002E-40 1.9450E-67	2.0597E-01 5.8806E-01 2.0597E-01 2.9597E-01 2.9346E-07 5.6733E-19 7.6146E-38 2.2363E-63 0.
E- A A+ A++ A+++ A+++	5.07898-02 8.98428-01 5.07898-02, 2.90268-10 4.00498-26 1.46988-51 1.52728-45	- MOLE FRACTIONS 1.2027E-01 7.5945E-01 1.2027E-01 1.8739E-08 8.3459E-22 3.0152E-43 4.3825E-72	1.6169E-01 6.7662E-01 1.6169E-01 8.2474E-08 2.6265E-20 2.6330E-40 2.7436E-67		SPECIES E- A A+ A++ A+++ A+++	7.7881E-02 8.4424E-01 7.7881E-02 1.5705E-09 1.7537E-24 1.6048E-48 9.4028E-81	- MOLE FRACTIONS 1.6429E-01 6.7143E-01 1.6429E-01 8.4871E-08 2.8903E-20 2.5002E-40 1.9450E-67	2.0597E-01 5.8806E-01 2.0597E-01 2.9597E-01 2.9346E-07 5.6733E-19 7.6146E-38 2.2363E-63

p₁ - 20 N/ m²

P1 = 2.00E+01 N/SQ-M. US1= 4.80E+03 M/SEC

P1 = 2.00E+01 N/SQ-M, US1= 4.40E+03 M/SEC

MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	HOVING SHOCK STANDING SHOCK REFLECTED SHOCK
	P 3.2472E+02 2.1547E+03 3.0819E+03
P 2.6839E+02 1.5510E+03 2.2890E+03	
T 3.3655E+01 4.0277E+01 4.2527E+01	T 3.5047E+01 4.2428E+01 4.4690E+01
RHU 7.2397E+00 3.1327E+01 4.1541E+01	RHO 8.1381E+00 3.9110E+01 5.0248E+01
H '. 6.1832E+01 1.0548E+02 1.2735E+02	H 7.3681E+01: 1.2802E+02 1.5239E+02
A 5.0459E+00 5.8420E+00 6.1719E+00	A 5.2261E+00 6.1701E+00 6.5234E+00
\$ 1.2023E+00 1.2359E+00 1.2665E+00	S 1.2262E+00 1.2708E+00 1.3047E+00
- , 1110151-00 , 1112711-00 ,	
GAME 6.8680E-01 6.8933E-01 6.9131E-01	GAME 6.8448E-01 6.9102E-01 6.9382E-01
U: 1.1763E+01 2.7269E+00 2.4726E+00	U 1.3055E+01 2.7198E+00 2.5167E+00
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
The content of the co	
E- 9.2173E-02 1.8647E-01 2.2820E-01	E- 1.2166E-01 2.2988E-01 2.7136E-01
A 8.1565E-01 6.2706E-01 5.4360E-01	
A+ 1 9.2173E-02 1.8647E-01 2.2820E-01	A+ 1.2166E-01 2.2988E-01 2.7135E-01
A++ 3.1360E-09 · 1.6357E-07 5.2291E-07	A++ 1.0213E-08 5.2047E-07 1.5003E-06
A*** 8.4049E-24 1.3730E-19 2.2418E-18	A+++ : 1.2386E-22 2.1545E-18 2.7984E-17
A++++ 3.0564E-47 5.0539E-39 1.0201E-36	AAAA
	4V 4.1171E-75 1.3950E-61 2.9782E-58
AV: 9. 3 1.0784E-78 7 3.0486E-65 1: 1.2838E-61	
AVI 0. 0.	
AVII 0	AVII). 0. 0.
AVIII 0. 0. 0.	AVIII 0. 0. 0.
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P1 = 2.00E+01 N/SQ-M, US1= 4.60E+03 M/SEC	P1 = 2.00E+01 N/SQ-M, US1 = 5.00E+03 M/SEC
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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 2.9594E+02 1.0362E+03 2.6669E+03	P 3.5475E+02 2.5017E+03 .3.5348E+03
T 3.4368E+01 4.1360E+01 4.3610E+01	
	T 3.5697E+01 4.3479E+01 4.5775E+01
	T 3.5697E+01 4.3479E+01 4.5775E+01
RHO 7.6912E+JO 3.5150E+C1 4.5868E+O1	RHO 8.5789E+00 4.3089E+01 5.4645E+01
RHO 7.6912E+00 3.5150E+01 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02
RHO 7.6912E+JO 3.5150E+C1 4.5868E+O1 H 6.7631E+O1 1.1649E+O2 1.3960E+O2 A 5.1354E+OO 6.0041E+OO 6.3452E+OO	RHO 8.5789E+00 4.3089E+01 5.4665E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0041E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00
RHO 7.6912E+JO 3.5150E+C1 4.5868E+O1 H 6.7631E+O1 1.1649E+O2 1.3960E+O2 A 5.1354E+OO 6.0041E+OO 6.3452E+OO	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00
RHO 7.6912E+JO 3.5150E+C1 4.5868E+O1 H 6.7631E+O1 1.1649E+O2 1.3960E+O2 A 5.1354E+OO 6.0041E+OO 6.3452E+OO S 1.2140E+OO 1.2530E+OO 1.2853E+OO L.1195E+OO 1.2631E+OO 1.3332E+OO	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3349E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 L 1.1195E+00 1.2631E+07 1.3332E+00 GAME 6.8540E-01 6.9007E-01 6.9247E-01	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9216E-01 6.9537E-01
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RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 L 1.1195E+00 1.2631E+07 1.3332E+00 GAME 6.8540E-01 6.9007E-01 6.9247E-01	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9216E-01 6.9537E-01
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 Z 1.1195E+00 1.2631E+07 1.3332E+00 GAME 6.8540E-01 6.9907E-01 6.9247E-01 U 1.241E+01 2.7290E+00 2.4924E+00	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9215E-01 6.9537E-01 U 1.3695E+01 2.7304E+00 2.5455E+00
RHO 7.6912E+JO 3.5150E+C1 4.5868E+O1 H 6.7631E+O1 1.1649E+O2 1.3960E+O2 A 5.1354E+O3 6.0941E+O0 6.3452E+O0 S 1.2140E+O0 1.2530E+O0 1.2853E+O0 Z 1.1195E+O0 1.2631E+O9 1.3332E+O0 GAME 6.8540E-O1 6.9007E-O1 6.9247E-O1 U 1.241E+O1 2.7290E+O0 2.4924E+O0 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9216E-01 6.9537E-01
RHO 7.6912E+JO 3.5150E+C1 4.5868E+O1 H 6.7631E+O1 1.1649E+O2 1.3960E+O2 A 5.1354E+OO 6.0941E+OO 6.3452E+OO S 1.2140E+OO 1.2530E+OO 1.2853E+OO Z 1.1195E+OO 1.2631E+OO 1.3332E+OO GAME 6.8540E-O1 6.9007E-O1 6.9247E-O1 U 1.2411E+O1 2.7290E+OO 2.4924E+OO SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.65774E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E+01 6.9216E+01 6.9537E+01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 Z 1.1195E+00 1.2631E+07 1.3332E+00 GAME 6.8540E-01 6.9907E-01 6.9247E-01 U 1.2411E+01 2.7290E+00 2.4924E+00 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9215E-01 6.9537E-01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
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RHO 7.6912E+JO 3.5150E+C1 4.5868E+O1 H 6.7631E+O1 1.1649E+JO 1.3960E+JO A 5.1354E+JO 6.0041E+JO 6.3452E+JO S 1.2140E+JO 1.2530E+JO 1.2853E+JO Z 1.1195E+JO 1.2631E+JO 1.3332E+JO GAME 6.8540E-JO 6.907E-JO 6.9247E-JO U 1.241E+JO 2.7290E+JO 2.4924E+JO SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9216E-01 6.9537E-01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 Z 1.1195E+00 1.2631E+07 1.3332E+00 GAME 6.8540E-01 6.9007E-01 6.9247E-01 U 1.2411E+01 2.7290E+00 2.4924E+00 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E+01 6.9216E+01 6.9537E+01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 Z 1.1195E+00 1.2631E+07 1.3332E+00 GAME 6.8540E-01 6.9007E-01 6.9247E-01 U 1.2411E+01 2.7290E+00 2.4924E+00 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9215E-01 6.9537E-01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 L 1.115Fe+00 1.2530E+00 1.3332E+00 GAME 6.8540E-01 6.9007E-01 6.9247E-01 U 1.2411E+01 2.7290E+00 2.4924E+00 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.65774E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3259E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9216E-01 6.9537E-01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 Z 1.1195E+00 1.2631E+07 1.3332E+00 GAME 6.8540E-01 6.9007E-01 6.9247E-01 U 1.2411E+01 2.7290E+00 2.4924E+00 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9215E-01 6.9537E-01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 Z 1.1195E+00 1.2631E+07 1.3332E+00 GAME 6.8540E-01 6.9907E-01 6.9247E-01 U 1.2411E+01 2.7290E+00 2.4924E+00 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9215E-01 6.9537E-01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 Z 1.1195E+00 1.2631E+07 1.3332E+00 GAME 6.8540E-01 6.9007E-01 6.9247E-01 U 1.2411E+01 2.7290E+00 2.4924E+00 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E-01 6.9215E-01 6.9537E-01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 Z 1.1195E+00 1.2631E+00 1.3332E+00 GAME 6.8540E-01 6.9007E-01 6.9247E-01 U 1.2411E+01 2.7290E+00 2.4924E+00 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.65774E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.4131E+00 GAME 6.8391E+01 6.9216E+01 6.9537E+01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 Z 1.1195E+00 1.2631E+07 1.3332E+00 GAME 6.8540E-01 6.9007E-01 6.9247E-01 U 1.2411E+01 2.7290E+00 2.4924E+00 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 Z 1.1584E+00 1.3353E+00 1.4131E+00 GAME 6.8391E+01 6.9216E+01 6.9537E+01 U 1.3695E+01 2.7304E+00 2.5455E+00 SPECIES
RHO 7.6912E+00 3.5150E+C1 4.5868E+01 H 6.7631E+01 1.1649E+02 1.3960E+02 A 5.1354E+00 6.0941E+00 6.3452E+00 S 1.2140E+00 1.2530E+00 1.2853E+00 Z 1.1195E+00 1.2631E+00 1.3332E+00 GAME 6.8540E-01 6.9007E-01 6.9247E-01 U 1.2411E+01 2.7290E+00 2.4924E+00 SPECIES	RHO 8.5789E+00 4.3089E+01 5.4645E+01 H 7.9983E+01 1.4001E+02 1.6574E+02 A 5.3179E+00 6.3393E+00 6.7069E+00 S 1.2389E+00 1.2893E+00 1.3249E+00 C 4.1584E+00 1.3353E+00 1.4131E+00 C 6AME 6.8391E+01 6.9216E+01 6.953TE+01 U 1.3695E+01 2.7304E+00 2.5455E+00 C 5PECIES

p, - 20 N/ m²

P1 = 2.00E+01 N/SQ-M.

US1= 5.60E+03 M/SEC

US1= 5.20E+03 M/SEC

P1 = 2.00E+01 N.'SQ-N.

	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		1	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
n. 1		2.8798E+03	4.0263E+03				3.7311E+03	
	3.8601E+02			•	Ŧ.	4.5227E+02		5.1287E+03
Ť	3.6324E+01	4.4523E+01	4.6873E+01		-	3.7525E+01	4.6623E+01	4.9147E+01
RHO	9.0121E+00	4.7089E+01	5.9020E+01	٠.,	, RHD ". ,	9.8516E+00	5.5032E+01	6.7574E+01
н	8.6537E+01	1.5249E+02	1.7964E+02		_ H ™	1-0040E+02	1.7890E+02	2.0917E+02
Α ΄	5.4111E+00	6.5124E+00	6.8963E+00		Α	5.6018E+00	6.8727E+00"	7.2970E+00
S .	1.2520E+00	1.3084E+00	1.3456E+00	111	S	1.2796E+00	1.3482E+00	1.3889E+00
ž	1.1792E+00	1.3736E+00	1.4554E+00		2	1.2234E+00	1.4542E+00	1.5443E+00
GAME	6.836UE-01	6.9348E-01	6.9715E-01	1.	GAME	6.8355E-01	6.9669E-01	7.0155E-01
					U			
.U	1.4332E+01	2.7470E+00	2.5789E+00	5 7	. · ·	1.5599E+01	2.7968E+00	2-6600E+00
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		•						
SPECIES		 MOLE FRACTIONS 		1 4 7 3	. SPECIES	S	- MOLE FRACTIONS	
		•		• •				• 4 · *
E	1.5195E-01	2.7198E-01	3.1290E-01		E-	1.8261E-01	3.1232E-01	· 3.5246E-01
Ā·	6.9610E-01	4.5604E-01	3.74216-01		Ā	6.3479E-01	3.7535E-01	2.9509E-01
Ä÷.		2.7198E-01	3.1289E-01	•	Ã.	1.8261E-01	3.1232E-01	3.5244E-01
	1.5195E-01				A++			
A++ .	2.7625E-08	1.4531E-06	3.9817E-06			6.6128E-08	3.7483E-06	1.0211E-05
A+++	1.1771E-21	2.5181E-17	2.9371E-16	1 1 1 in 1	A+++	9.0492E-21	2.4675E-16	2.8595E-15
A++++	2.7338E-43	1.J137E-34	1.0840E-32	•	A++++	1.51896-41	7.7265E-33	7.9170E-31
AV	7.1056E-74	2.61216-58	4.2909E-55	4.5	AV .	1.4910E-69	2 - 8715E-55	4.0732E-52
AVI	0.	1.4603E-88	6.8593E-85		AVI	0.	4.6945E-84	4.9667E-80
AVII		0.	0.	S	AVII	ž.	0.	0.
	o.			*				
IIIVA	9•	0•	0.		IIIVA	0.	0.	0.
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P1 = 7	2.00E+01 N/S4-M	, US1= 5.40E+0	D3 M/SEC		P1 = ;	2.00E+01 N/SQ-M	, US1= 5.80E+0	3 M/SEC
P1 = 7		, US1≈ 5.40E+0	os m/SEC		P1 = :	2.00E+01 N/SQ-M	, US1= 5.80E+0	3 M/SEC
P1 = 2	2.00E+01 N/SQ-M	, US1= 5.40E+0	O3 M/SEC		P1 = 3	2.00E+01 N/SQ-M	, US1= 5.80E+0	3 N/SEC
P1 = 2	Ja.	, US1= 5.40E+0			P1 = :	-		*.
	Ja. Moving shock	STANDING SHOCK	REFLECTED SHOCK	,	P1 * ;	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	39: MOVING SHOCK 4.1849E+02	STANDING SHOCK 3.2890E+03	REFLECTED SHOCK	•	P	MOVING SHOCK	STANDING SHOCK 4-1982E+03	REFLECTED SHOCK 5.7333E+03
P T	MOVING SHOCK 4.1849E+02 3.6932E+01	STANDING SHOCK 3.2890E+03 4.5568E+01	REFLECTED SHOCK 4.5568E+03 4.7992E+01		P T	MOVING SHOCK 4.8703E+02 3.8103E+01	STANDING SHOCK 4.1982E+03 4.7684E+01	REFLECTED SHOCK 5.7333E+03 5.0339E+01
P T RHO	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01		P T RHO	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01	STANDING SHOCK 4.1982E+03 4.7684E+01 5.8847E+01	REFLECTED SHOCK 5.7333E+03 5.0339E+01 7.1609E+01
P T	MOVING SHOCK 4.1849E+02 3.6932E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02		P T RHO H	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02	STANDING SHOCK 4-1982E+03 4-7684E+01 5-8847E+01 1-9274E+02	REFLECTED SHOCK 5.7333E+03 5.033E+01 7.1609E+01 2.2470E+02
P T RHO H	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00	STANDING SHOCK 3-2890E+03 4-5568E+01 5-1075E+01 1-6544E+02 6-6899E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.941E+02 7.0924E+00		P T RHO H	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02 5.6993E+00	STANDING SHOCK 4-1982E+03 4-7684E+01 5-8847E+01 1-9274E+02 7-0597E+00	REFLECTED SHOCK 5-7333E+03 5-0339E+01 7-1609E+01 2-2470E+02 7-5095E+00
P T RHO	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02		P T RHO H	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02	STANDING SHOCK 4-1982E+03 4-7684E+01 5-8847E+01 1-9274E+02	REFLECTED SHOCK 5.7333E+03 5.0339E+01 7.1609E+01 2.2470E+02
P T RHO H A S	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00	STANDING SHOCK 3-2890E+03 4-5568E+01 5-1075E+01 1-6544E+02 6-6899E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.941E+02 7.0924E+00		P T RHO H	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02 5.6993E+00 1.2940E+00	STANDING SHOCK 4.1982E+03 4.7684E+01 5.8847E+01 1.9274E+02 7.0597E+00 1.3689E+00	REFLECTED SHOCK 5.7333E+03 5.0339E+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00
P T RHO H A S	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00	STANDING SHOCK 3.2890E+03 4.5566E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00		P T RHO H A S	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02 5.6993E+00 1.2940E+00 1.2448E+30	STANDING SHOCK 4-1982E+03 4-7684E+01 5-8847E+01 1-9274E+02 7-0597E+00 1-3689E+00 1-4961E+00	REFLECTED SHOCK 5.7333E+03 5.0339E+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.1849E+02 3.692E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.8349E-01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.4499E-01	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E+01		P T RHO H A S	MOVING SHOCK 4:8703E+02 3:8103E+01 1:0252E+01 1:0271E+02 5:6993E+00 1:2940E+00 1:2468E+00 6:8374E-01	STANDING SHOCK 4.1982E+03 4.7684E+01 5.8847E+01 1.9274E+02 7.0597E+00 1.3689E+00 1.4961E+00 6.9862E-01	REFLECTED SHOCK 5.7333e03 5.0339e01 7.1609E01 2.2470E02 7.5095E00 1.412E00 1.5905E00 7.0433E01
P T RHO H A S	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00	STANDING SHOCK 3.2890E+03 4.5566E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00		P T RHO H A S	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02 5.6993E+00 1.2940E+00 1.2448E+30	STANDING SHOCK 4-1982E+03 4-7684E+01 5-8847E+01 1-9274E+02 7-0597E+00 1-3689E+00 1-4961E+00	REFLECTED SHOCK 5.7333E+03 5.0339E+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.1849E+02 3.692E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.8349E-01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.4499E-01	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E+01		P T RHO H A S	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02 5.6993E+00 1.2940E+00 1.2468E+30 6.8374E-01 1.6221E+01	STANDING SHOCK 4-1982E+03 4-7684E+01 5-8847E+01 1-9274E+02 7-0597E+00 1-3689E+00 1-4961E+00 6-9862E-01 2-8305E+00	REFLECTED SHOCK 5.7333e03 5.0339e01 7.1609E01 2.2470E02 7.5095E00 1.412E00 1.5905E00 7.0433E01
P T RHO H A S Z GAME U	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.8349E-01 1.4965E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.499E-01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00		P T RHO H A S Z GAME U	MOVING SHOCK 4:8703E+02 3:8103E+01 1:0252E+01 1:0771E+02 5:6993E+00 1:2940E+00 1:2468E+00 6:8374E-01 1:6221E+01	STANDING SHOCK 4.1982E-03 4.7684E-01 5.8847E-01 1.9274E-02 7.0597E-00 1.3689E-00 1.4961E-00 6.9862E-01 2.8305E+00	REFLECTED SHOCK 5.7333E+03 5.0339E+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.8349E-01 1.4965E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.4499E-01	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00		P T RHO H A S	MOVING SHOCK 4:8703E+02 3:8103E+01 1:0252E+01 1:0771E+02 5:6993E+00 1:2940E+00 1:2468E+00 6:8374E-01 1:6221E+01	STANDING SHOCK 4-1982E+03 4-7684E+01 5-8847E+01 1-9274E+02 7-0597E+00 1-3689E+00 1-4961E+00 6-9862E-01 2-8305E+00	REFLECTED SHOCK 5.7338-03 5.0339E+01 7.1609E+01 2.2470E+02 7.5995E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00
P T RHO H A S Z GAME U	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.8349E-01 1.4965E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.499E-01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00		PTRHOHASZGAMEU	MOVING SHOCK 4:8703E+02 3:8103E+01 1:0252E+01 1:0771E+02 5:6993E+00 1:2940E+00 1:2468E+00 6:8374E-01 1:6221E+01	STANDING SHOCK 4.1982E-03 4.7684E-01 5.8847E-01 1.9274E-02 7.0597E-00 1.3689E-00 1.4961E-00 6.9862E-01 2.8305E+00	REFLECTED SHOCK 5.7338-03 5.0339E+01 7.1609E+01 2.2470E+02 7.5995E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00
P T RHO H A S Z GAME U	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.8349E-01 1.4965E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.499E-01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00		P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 4:8703E+02 3:8103E+01 1:0252E+01 1:0771E+02 5:6993E+00 1:2940E+00 1:2468E+00 6:8374E-01 1:6221E+01	STANDING SHOCK 4.1982E-03 4.7684E-01 5.8847E-01 1.9274E-02 7.0597E-00 1.3689E-00 1.4961E-00 6.9862E-01 2.8305E+00	REFLECTED SHOCK 5.7338-03 5.0339E+01 7.1609E+01 2.2470E+02 7.5995E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00
P T RHO H A S Z GAME U	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.3349E-01 1.4965E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.9499E-01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00		P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02 5.6993E+00 1.2940E+00 1.2468E+00 6.8374E-01 1.6221E+01	STANDING SHOCK 4.198 2E.03 4.7684E.01 5.8847E.01 1.9274E.02 7.0597E.00 1.3689E.00 1.4961E.00 6.9862E-01 2.8305E.00 - MOLE FRACTIONS 3.3160E-01	REFLECTED SHOCK 5.7333E+03 5.0339E+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00
P T RHD H A S Z GAME U SPECIE:	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.209E+00 6.3349E-01 1.4965E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.4132E+00 6.9499E-01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00		P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02 5.6993E+00 1.2940E+00 6.8374E-01 1.6221E+01 5	STANDING SHOCK 4-1982E+03 4-7684E+01 5-8847E+01 1-9274E+02 7-0597E+00 1-3689E+00 6-9862E-01 2-8305E+00 - MOLE FRACTIONS 3-3160E-01 3-3681E-01	REFLECTED SHOCK 5.733E+03 5.033E+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4.1849E+02 3.692E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.3349E-01 1.4965E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.9499E+01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7592E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00		P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4:8703E+01 1:0252E+01 1:0275E+01 1:0275E+00 1:2940E+00 1:2468E+01 1:6221E+01 1:9793E-01 6:0413E-01 1:9793E-01	STANDING SHOCK 4.1982E+03 4.7684E+01 5.8847E+01 1.9274E+02 7.0597E+00 1.3689E+00 1.4961E+00 6.9862E-01 2.8305E+00 - MOLE FRACTIONS 3.3160E-01 3.3681E-01 3.3159E-01	REFLECTED SHOCK 5.7333e-03 5.0339E-01 7.1609E-01 2.2470E-02 7.5095E-00 1.412E-00 1.5905E-00 7.0433E-01 2.7086E-00 3.7128E-01 3.7128E-01 3.7128E-01
P T RHD H A S Z GAME U SPECIE:	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.8349E-01 1.4965E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.4132E+00 6.9499E+01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00 3.3292E-01 3.3292E-01 6.3839E-01		P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02 5.6993E+00 1.2940E+00 1.2940E+00 1.2468E+01 6.8374E-01 1.6221E+01	STANDING SHOCK 4-1982E-03 4-7684E-01 5-8847E-01 1-9274E-02 7-0597E+00 1-3689E+00 1-4961E-00 6-9862E-01 2-8305E+00	REFLECTED SHOCK 5.7333E+03 5.0339E+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00 3.7128E-01 2.5746E-01 3.7124E-01 1.6316E-05
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2606E+00 1.2009E+00 6.8349E-01 1.4965E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.0544E+02 6.6899E+00 1.3280E+00 1.3132E+00 6.9499E-01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7592E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00 3.3292E-01 3.3292E-01 3.3292E-01 6.3839E-06 9.1817E-16		P T RHO H A S Z GAME U SPECIE: E - A A + A + + + + + + + + + + + + + + +	MOVING SHOCK 4:8703E+02 3:8103E+01 1:0252E+01 1:0271E+02 5:6993E+00 1:2940E+00 1:2940E+01 1:6221E+01 3:000000000000000000000000000000000000	STANDING SHOCK 4.1982E+03 4.7684E+01 5.8847E+01 1.9274E+02 7.0597E+00 1.3689E+00 1.4961E+00 6.9862E-01 2.8305E+00 - MOLE FRACTIONS 3.3160E-01 3.3159E-01 5.8965E-06 7.3520E-16	REFLECTED SHOCK 5.7333:403 5.033:90:01 7.1609E:01 2.24700:02 7.5095E:00 1.4112E:00 1.5905E:00 7.0433E:01 2.7086E:00 3.7128E:01 3.7128E:01 3.7126E:01 3.7126E:01 3.7126E:01
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.3349E-01 1.4965E+01 5.5057E+00 1.4965E+01 4.326E-01 4.326E-08 3.3017E-21 1.773E-42	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.9499E-01 2.7692E+00 MULE FRACTIONS 2.9238E-01 4.1524E-01 2.3501E-06 8.0119E-17 9.1791E-34	REFLECTED SHOCK 4.5568E+03 4.7592E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00 3.3293E-01 3.3414E-01 3.3292E-01 6.3839E-06 9.1817E-16 9.3188E-32		P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4:8703E+02 3:8103E+01 1:0252E+01 1:0271E+02 5:6993E+00 1:2940E+00 1:2940E+01 1:6221E+01 5:531E-01 1:9793E-01 6:0413E-01 1:9793E-01 9:8614E-08 2:2806E-20 8:5531E-41	\$TANDING \$MOCK 4.198 2E+03 4.7684E+01 5.8847E+01 1.9274E+02 7.0597E+00 1.3689E+00 1.4961E+00 6.9862E-01 2.8305E+00 - MOLE FRACTIONS 3.3160E-01 3.3681E-01 3.3159E-01 5.8965E-06 7.3520E-16 6.0044E-32	REFLECTED SMOCK 5.7333E+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00 3.7128E-01 2.5746E-01 3.7124E-01 1.6316E-05 8.9100E-15 6.7570E-30
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2606E+00 1.2009E+00 6.8349E-01 1.4965E+01	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.0544E+02 6.6899E+00 1.3280E+00 1.3132E+00 6.9499E-01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7592E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00 3.3292E-01 3.3292E-01 3.3292E-01 6.3839E-06 9.1817E-16		P T RHO H A S Z GAME U SPECIE: E - A A + A + + + + + + + + + + + + + + +	MOVING SHOCK 4:8703E+02 3:8103E+01 1:0252E+01 1:0271E+02 5:6993E+00 1:2940E+00 1:2940E+01 1:6221E+01 3:000000000000000000000000000000000000	STANDING SHOCK 4.1982E+03 4.7684E+01 5.8847E+01 1.9274E+02 7.0597E+00 1.3689E+00 1.4961E+00 6.9862E-01 2.8305E+00 - MOLE FRACTIONS 3.3160E-01 3.3159E-01 5.8965E-06 7.3520E-16	REFLECTED SHOCK 5.7333:e03 5.033:e01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00 3.7128E-01 3.712E-01 1.6316E-05 8.9100E-15
P T RHD H A S Z GAME U SPECIE: A A++ A++ A+++ A+++	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.8349E-01 1.4965E+01 S	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.9499E-01 2.7692E+00 MULE FRACTIONS 2.9238E-01 4.1524E-01 2.3501E-06 8.0119E-17 9.1791E-34	REFLECTED SHOCK 4.5568E+03 4.7592E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00 3.3293E-01 3.3414E-01 3.3292E-01 6.3839E-06 9.1817E-16 9.3188E-32		P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4:8703E+02 3:8103E+01 1:0252E+01 1:0271E+02 5:6993E+00 1:2940E+00 1:2940E+01 1:6221E+01 5:531E-01 1:9793E-01 6:0413E-01 1:9793E-01 9:8614E-08 2:2806E-20 8:5531E-41	\$TANDING \$MOCK 4.198 2E+03 4.7684E+01 5.8847E+01 1.9274E+02 7.0597E+00 1.3689E+00 1.4961E+00 6.9862E-01 2.8305E+00 - MOLE FRACTIONS 3.3160E-01 3.3681E-01 3.3159E-01 5.8965E-06 7.3520E-16 6.0044E-32	REFLECTED SHOCK 5.733E+03 5.033E+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00 3.7128E-01 2.5746E-01 3.712*E-01 1.6316E-05 8.9100E-15 6.7570E-30 1.3273E-50
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.3349E-01 1.4965E+01 5.5057E+00 1.4965E+01 1.6726E-01 4.3266E-08 3.3017E-21 1.7738E-42 4.9242E-71	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.0544E+02 6.6899E+00 1.3280E+00 1.4132E+00 6.9499F-01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00 3.3293E-01 3.3293E-01 3.3293E-01 4.3839E-06 9.1817E-16 9.3188E-32 1.3344E-53 2.7407E-82		P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4:8703E+02 3:8103E+01 1:0252E+01 1:0271E+02 5:6993E+00 1:2940E+00 1:2468E+01 1:6221E+01 3:468E+01 1:9793E-01 1:9793E-01 1:9793E-01 1:9793E-01 1:9793E-01 1:9793E-01 1:9793E-01 1:9793E-01 1:9793E-01	STANDING SHOCK 4.1982E+03 4.7684E+01 5.8847E+01 1.9274E+02 7.0597E+00 1.3689E+00 1.3689E+00 1.4961E+00 6.9862E-01 2.8305E+00 - MOLE FRACTIONS 3.3160E-01 3.3681E-01 3.3159E-01 5.8965E-06 7.3520E-16 6.0044E-32 7.2398E-54 3.7209E-82	REFLECTED SHOCK 5.7333+03 5.039+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00 3.7128E-01 3.7128E-01 1.6316E-05 8.9100E-15 6.7570E-30 1.3273E-50 5.7966E-78
P T RHD H A S Z GAME U SPECIE: A A++ A++ A+++ A+++	MOVING SHOCK 4.1849E+02 3.6932E+01 9.4363E+00 9.3343E+01 5.5057E+00 1.2656E+00 1.2009E+00 6.8349E-01 1.4965E+01 S	STANDING SHOCK 3.2890E+03 4.5568E+01 5.1075E+01 1.6544E+02 6.6899E+00 1.4132E+00 6.9499E+01 2.7692E+00	REFLECTED SHOCK 4.5568E+03 4.7992E+01 6.3337E+01 1.9411E+02 7.0924E+00 1.3670E+00 1.4991E+00 6.9919E-01 2.6170E+00 3.3292E-01 3.3292E-01 4.3839E-06 9.1817E-16 9.3188E-32 1.3344E-53		P T RHO H A S Z Z GAME U SPECIE:	MOVING SHOCK 4.8703E+02 3.8103E+01 1.0252E+01 1.0771E+02 5.6993E+00 1.2468E+00 6.8374E-01 1.6221E+01 S	STANDING SHOCK 4-1982E-03 4-7684E+01 5-8847E+01 1-9274E+02 7-0597E+00 1-3689E+00 1-4961E+00 6-9862E-01 2-8305E+00	REFLECTED SHOCK 5.733E+03 5.033E+01 7.1609E+01 2.2470E+02 7.5095E+00 1.4112E+00 1.5905E+00 7.0433E-01 2.7086E+00 3.7128E-01 2.5746E-01 3.7124E-01 1.6316E-05 8.9100E-15 6.7570E-30 1.3273E-50

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	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK				REFLECTED SHOCK
Ρ	5.2331E+02.	4.7035E+03	6.3875E+03	Ρ.	5.9928E+02	.5.7978E+03	7.8114E+03 ,
T	3.8673E+01	4.8781E+01	. 5.1610E+01	1	3.9790E+01	5.1090E+01	5.4468E+01
RHD -	1.0646E+01	6.2629E+01	7.5540E+01	RHO	1.1392E+01	6.9649E+01	8.2568E+01
н	1.1528E+J2	2.0718E+02	2.4096E+02	н	1.3117E+02	2.3738E+02	2.75256+02
Δ	5.7987E+00	7.2550E+00	7.7357E+00	A -	6.0026E+0C	7.6690E+00	8.23816+00
Š	1.3088E+00	1.3901E+00	1.4342E+00	S	1.33966+00	1.4336E+30	1.4812E+00
ž	1.2710E+00	1.5396E+00	1.6384E+00	Z	1.3220E+00	1.6293E+00	1.7369E+00
GAME	6.8405E-01	7.0085E-01	7.0771E-01	GAME	6.8497E-01	7.0653E-01	7.1736E-01
14	1.6850E+01	2.8689E+00	2.7632E+00	u ~	1.8095E+01	2.9645E+00	2.895 9F+00
J	1.00335431	2.000 72.00	2.10325400	ū	1100751-01	2,,0-,22,00	2.075 % 1.00
•			* -				* `*
SPECIE	s	- MOLE FRACTIONS		SPEC IF S		- MOLE FRACTIONS	
E-	2.1324E-01	3.5047E-01	3.8964E-01	E − '	2.4357E-01	3.8625E-01	4.2426E-01
Δ	5.7352E-01	2.9907E-01	2.2075E-01	A , ;	5.1285E-01	2.2752E-01	1.5156E-01
A+	2.1324E-31	3.5045E-01	3.8959E-01	A+	2.4357E-01	3.8621E-01	4.2411E-01
A++	1.4432E-07	9.2730E-06	2.6451E-05	A++	2.9615E-07	2.2964E-05	7.4266E-05
A+++	5.4316E-20	2.20725-15	2.8882E-14	A+++	2.9691E-19	1.9820E-14	3.5705E-13
A++++	3.9087E-40	4.8895E-31	6.2661E-29	A++++	1.0847F-38	2.9675E-29	7.0094E-27
AV	1.2633E-67	2.2991E-52	5.2158E-49	AV	5.7636E-65	1.5132E-49	1.03208-45
				ÄVI	3.10302-05	8.4671E-76	4.7222E-70
AVI	0.	8.9364E-80	5.5880E-75	AVII		0.	
AVII	0.	o. ·	0.		3	0.	. 0.
AVIII	0.	0	0.	AVIII	J.	0.	0.
			•	•			
	•	•					
		•					• •
P1 =	2.00E+01 N/SQ-M	, USI= 6.20E+03	M/SEC	P1 = 2	.00E+01 N/Su-M	. US1= 6.60E+0	3 M/2EC
			•				
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHUCK
P	5.6069E+02	5.2361E+03	7.0788E+03	Р	6.3910E+02	6.3888E+03	8.591 0E+03
Ť	3.9235E+01	4.9910E+01	5.2971E+01	Ť	4.0342E+01	5.2343E+01	5.6181E+01
RHO	1.1026E+01	6.6233E+01	7.9205E+01	RHO	1.1746E+01	7.2846E+01	8.5544E+01
H	1.2310E+02	2.2205E+02	2.5778E+02	. н	1.3950E+02	2.5320E+02	2.93556+02
Ä			7.9765E+00	Ä	6.1075E+00	7.8926E+00	8.53226+00
	5.8997E+00	7.4573E+00		ŝ			
S	1.32408+00	1.4116E+30	1.4575E+00	3 2	1.3556E+00	1.4558E+00	1.50556+00
Ζ	1.2961E+00	1.5840E+00	1.6872F+00		1.3487E+00	1.6755E+00	1.78766+00
GAME	6.8446E-01	7.0345E-01	7.1191E-01	GAME	6.8556E-31	7.1029E-01	7.2487E-01
U	1.7474E+01	2.9136E+00	2.8251E+00	U .	1.87145+01	3.0206E+00	2.9905E+00
		HOLE CONCERNO	*	SPECIES	•	- MOLE FRACTIONS	
SPECIE	2	- MULE FRACTIONS		SPECIES.		- MULE PRACTIONS	,
E-	2.2846E-01	3.6867E-01		E	2.5855E-01	4.0317E-01	4.4059E-01
A	5.4308E-01	2.6266E-01	1.8545E-01	A	4.8291E-01	1.9370E-01	1.1896E-01
A+	2.2846E-01	3.6865E-01	4.0721E-01	A +	2.5855E-01	4.0310E-01	4.4032E-01
A++	2.0804E-07	1.4549E-05	4.3629E-05	A++	4.1596E-07	3.6736E-05	1.3358E-04
A+++	1.2757E-19	6.5573E-15	9.7729E-14	A+++	6.5212E-19	6.2158E-14	1.4913E-12
A++++	1.91946-39	3.7501E-30	6.2157E-28	A++++	4.5516E-38	2.5466E-28	9.9806E-26
AV	5.1476E-67	5.7704E-51	2.1387E-47	AV	5.0986E-64	4.8638E-48	6.9879E-44
ÄVI).	8.9850E-78	1.5743E-72	AVI	0.	1.6070E-73	2-1574E-67
AVII	3.	0.	0.	AVII	š.	0.	0.
AVIII	0.	0.	0.	AVIII	ó.	j.	o.
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	MOVING SHOCK	STANDING SHOCK -	DEEL ECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
D	6.8012E+02	7.0056E+03	9.4055E+03	р '	7.6578E+02	8.3084E+03	1.1196E+04
r ,	7 4 000225 01			Ť			
	4.0892E+01	5.3696E+01	5.8177E+01		4.1995E+01	5.6894E+01	6.4128E+01
RHO	1.2086E+01	7.5753E+01	8.7987E+01	RHO '	1.272UE+01	8.0413E+01	9.0334E+01
H.	1.4608E+02	2.6947E+02	3.1229E+02	H	1.6600E+02	3.03386+02	3.5305E+02
A	6.2144E+00	8.1317E+00	8.8674E+00	A	-6.4351E+00	8.6830E+00	9.8033E+00
S	1.3719E+00	1.4783E+00	1.5297E+00	S	1.4056E+00	1.52376+00	1.5793E+00
2	1.3762E+00	1.7223E+00	1.8374E+00	ž	1.4335E+30	1.81605+00	1.9326E+00
GAME	6.8625E-01	7.1501E-01	7.3557E-01	GAME	6.8788E-01	7.2969E-01	7.7544E-01
UMIL ,,	1.9332E+01	3.0873E+00	3.076 0E + 00	Ü	2.0561E+01	3.2573£+00	
Ÿ	1.75522401	. 3.00132.00	, 3.01000.000	U	2.03016.01	3.23136400	3.3662E+00
SPECIES		MOLE FRACTIONS		SPEC IE	s 	- MULE FRACTIONS	;
_				_			
E	2.7336E-01	4.1937E-01	4.5576E-01	E-	3.0241E-01	4.4935E-01	4.8257E-01
A	4.5328E-01	1.6132E-01		A	3.95175-01	1.0148E-01	3.6408E-02
A+ '	2.7336E-01	4.1925E-01	4.5524E-01	A+	3.02416-01	4.4899E-01	4.7948E-01
A++	5.7866E-07	6.0062E-05	2.5761E-04	A++	1.0993E-06	1.8144E-04	1.5430E-03
A+++	1.3985E-18	2.0546E-13	7.3944E-12	A+++	6.4777E-16	3.0371E-12	5.8346E-10
A+++	1.6997E-37	.2.3745E-27	1.9348E-24	A+++	3.5018E-36	3.5669E-25	5.9374E-21
AV'	7.5469E-64	1.7093E-46	7.6539E-42	AV	5.8963E-61	5.0635E-43	
IVA	0.	2.9204E-71	1.9705E-64	AVI	o.	3.7248E-66	1.6891E-56
IIVA	0.	0.	0.	IIVA	0.	0.	3.5042E-84
111VA	9-	0.	0.	IIIVA	. 0.	0.	. 0,•
		*					
			•				
P1 = 2.	.00E+01 N/SQ-M	US1= 7.00E+03	M/SEC	P1 =	2.00E+01 N/SQ-M	. US1= 7.40E+0	D3 M/SEC
P1 = 2.	.00E+01 N/SQ-M	, US1= 7.00E+03	M/SEC	P1 =	2.00E+01 N/SQ-M	, US1= 7.40E+0	O3 M/SEC
P1 = 2	.00E+01 N/SQ-M	, US1= 7.00E+03	M/SEC	P1 =	2.00E+01 N/SQ-M	, US1= 7.40E+0	D3 M/SEC
P1 = 2			·	P1 =		-	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHUCK	REFLECTED SHOCK
P ₃	MOVING SHOCK 7.2235E+02	STANDING SHOCK 7.6458E+03	REFLECTED SHOCK 1.0266E+04	P	MOVING SHOCK 8.10425+02	STANDING SHUCK 8.9880E+03	REFLECTED SHOCK 1.2176E+04
P .	MOVING SHOCK 7.2235E+02 4.1442E+01	STANDING SHOCK 7.6458E+03 5.5191E+01	REFLECTED SHOCK 1.0266E+04 6.0680E+01	P T	MOVING SHOCK 8.10425+02 4.2553E+01	STANDING SHUCK 8.9880E+03 5.8912E+01	REFLECTED SMOCK 1.2176E+04 6.8584E+01
P T RHO	MOVING SHOCK 7.2235E+02 4.1442E+01 1.2410E+01	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01	REFLECTED SHOCK 1.0266F+04 6.0680F+01 8.9702E+01	P T RHO	MOVING SHOCK 8.10425+02 4.25535+01 1.30156+01	STANDING SHUCK 8.9880E+03 5.8912E+01 8.1949E+01	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01
P .	MOVING SHOCK 7.2235E+02 4.1442E+01 1.2410E+01 1.5691E+02	STANDING SHDCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8629E+92	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02	Р Т RHD Н	MOVING SHOCK 8.10425+02 4.25535+01 1.30155+01 1.75345+02	STANDING SHUCK 8.9880E+03 5.8912E+01 8.1949E+01 3.2099E+02	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02
P T RHO	MOVING SHOCK 7.2235E+02 4.1442E+01 1.2410E+01	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01	REFLECTED SHOCK 1.0266F+04 6.0680F+01 8.9702E+01	P T RHD H A	MOVING SHOCK 8.10425+02 4.25535+01 1.30156+01	STANDING SHUCK 8.9880E+03 5.8912E+01 8.1949E+01 3.2099E+02 9.0205E+00	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01
P T RHO	MOVING SHOCK 7.2235E+02 4.1442E+01 1.2410E+01 1.5691E+02	STANDING SHDCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8629E+92	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02	Р Т RHD Н	MOVING SHOCK 8.10425+02 4.25535+01 1.30155+01 1.75345+02	STANDING SHUCK 8.9880E+03 5.8912E+01 8.1949E+01 3.2099E+02	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02
P T RHO	MOVING SHOCK 7.2235E+02 4.1442E+01 1.2410E+01 1.5691E+02 6.3236E+00 1.3886E+00	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.5010E+00	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00	P T RHD H A	MOVING SHOCK 8.1042E+02 4.2553E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00	STANDING SHUCK 8.9880E+03 5.8912E+01 8.1949E+01 3.2099E+02 9.0205E+00 1.5464E+00	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02 1.0296E+01 1.6040E+00
P T RHO H A S	MDV.ING SHOCK 7.2235E+02 4.1442E+01 1.2410E+01 1.5691E+02 6.3236E+00 1.3886E+00 1.4445E+00	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8620E+02 8.3919E+00 1.5010E+00 1.7693E+00	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.8861E+00	P T RHD H A S S	MOVING SHOCK 8.10425+02 4.2553£+01 1.3015£+01 1.7534£+02 6.5492£+00 1.4229£+00 1.4633£+00	STANDING SHUCK 6.9880E+03 5.8912E+01 8.1949E+01 3.2099E+02 9.0205E+00 1.5464E+00 1.8617E+00	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02 1.0296E+01 1.6040E+00 1.9713E+00
P T RHO H A S	MOVING SHOCK 7-22356+02 4.14426+01 1.24106+01 1.56916+02 6.32366+00 1.38866+00 1.44566+00 6.87016-01	\$TANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.5010E+00 1.7693E+00 7.2120E-01	REFLECTED SHOCK 1.0266E+04 6.0680F+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.8861E+00 7.5188E-01	P T RHO H A S Z GAME	MOVING SHOCK 8.1042E+02 4.2555E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.8884E-01	STANDING SHUCK 8.9880£*03 5.8912£*01 8.1949£*01 3.2099£*02 9.0205£*00 1.5464£*00 1.8617£*03 7.4189£*01	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02 1.0296E+01 1.6040E+00 1.9713E+00 7.8410E-01
P T RHO H A S	MDV.ING SHOCK 7.2235E+02 4.1442E+01 1.2410E+01 1.5691E+02 6.3236E+00 1.3886E+00 1.4445E+00	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8620E+02 8.3919E+00 1.5010E+00 1.7693E+00	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.8861E+00	P T RHD H A S S	MOVING SHOCK 8.10425+02 4.2553£+01 1.3015£+01 1.7534£+02 6.5492£+00 1.4229£+00 1.4633£+00	STANDING SHUCK 6.9880E+03 5.8912E+01 8.1949E+01 3.2099E+02 9.0205E+00 1.5464E+00 1.8617E+00	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02 1.0296E+01 1.6040E+00 1.9713E+00
P T RHO H A S	MOVING SHOCK 7-22356+02 4-1442E+01 1-2410E+01 1:5691E+02 6-3236E+00 1-3886E+00 1-4045E+00 6-8701E-01 1-9947E+01	\$TANDING SHDCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.5010E+00 1.7693E+00 7.2120E-01 3.1664E+00	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5560E+00 1.8861E+00 7.5188E-01 3.1851E+00	P T RHO H A S Z GAME	MOVING SHOCK 8.1042E+02 4.2555E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.8884E-01	STANDING SHUCK 8.9880£*03 5.8912£*01 8.1949£*01 3.2099£*02 9.0205£*00 1.5464£*00 1.8617£*03 7.4189£*01	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02 1.0296E+01 1.6040E+00 1.9713E+00 7.8410E-01
P T RHO H A S	MOVING SHOCK 7-22356+02 4-1442E+01 1-2410E+01 1:5691E+02 6-3236E+00 1-3886E+00 1-4045E+00 6-8701E-01 1-9947E+01	\$TANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.5010E+00 1.7693E+00 7.2120E-01	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5560E+00 1.8861E+00 7.5188E-01 3.1851E+00	P T RHD H A S Z GAME U	MOVING SHOCK 8.1042E+02 4.2555E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.884E-01 2.1173E+01	STANDING SHUCK 8.9880£*03 5.8912£*01 8.1949£*01 3.2099£*02 9.0205£*00 1.5464£*00 1.8617£*03 7.4189£*01	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058F+01 3.7521E+02 1.0296F+01 1.6040E+00 1.9713E+00 7.8410E-01 3.5738E+00
P T T T T T T T T T T T T T T T T T T T	MOVING SHOCK 7-2235E+02 4.1442E+01 1.2410E+01 1.5691E+02 6.3236E+00 1.3886E+00 1.4445E+00 6.8701E-01 1.9947E+01	STANDING SHOCK 7-6458E+03 5-5191E+01 7-8300E+01 2-8620E+02 8-3919E+00 1-7693E+00 1-7693E+00 7-2120E-01 3-1664E+00	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.8861E+00 7.5188E-01 3.1851E+00	P T RHO H A S Z GAME U	MOVING SHOCK 8.1042E+02 4.2555E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.8884E-01 2.1173E+01	STANDING SHUCK 8.9880£*03 5.9912£*01 8.1949£*01 3.2099£*02 9.0205£*00 1.5464£*00 1.8617£*00 7.4189£*01 3.3674£*00	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02 1.0296E+01 1.6040E+00 1.9713E+00 7.8410E-01 3.5738E+00
P T RHO H A S Z GAME U	MOVING SHOCK 7-22356+02 4-1442E+01 1-2410E+01 1:5691E+02 6-3236E+00 1-3886E+00 1-4045E+00 6-8701E-01 1-9947E+01	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.5010E+00 1.7693E+00 7.2120E+01 3.1664E+00	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.8861E+00 7.5184E-01 3.1851E+00	P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 8.1042E+02 4.2553E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.884E-01 2.1173E+01	STANDING SHUCK	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02 1.0296E+01 1.6040E+00 1.9713E+00 7.8610E-01 3.5738E+00
P T T T T T T T T T T T T T T T T T T T	MOVING SHOCK 7-2235E+02 4.1442E+01 1.2410E+01 1.5691E+02 6.3236E+00 1.3886E+00 1.4445E+00 6.8701E-01 1.9947E+01	\$TANDING \$HDCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.5010E+00 1.7693E+00 7.2120E-01 3.1664E+00 -MULE FRACTIONS 4.3480E-01 1.3051E-01	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.8861E+00 7.5188E-01 3.1851E+00	P T RHD H A' S Z GAME U SPECIE E- A	MOVING SHOCK 8.1042E+02 4.2553E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.8884E-01 2.1173E+01 S	STANDING SHUCK	REFLECTED SHOCK 1.2176E+04 6.888E+01 9.0058E+01 3.7521E+02 1.0246E+01 1.6040E+00 1.9713E+00 7.8410E-01 3.5738E+00
P T T T T T T T T T T T T T T T T T T T	MOVING SHOCK 7-22356+02 4-1442E+01 1-2410E+01 1-5691E+02 6-3236E+00 1-3886E+00 1-4045E+00 6-8701E-01 1-9947E+01	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.5010E+00 1.7693E+00 7.2120E+01 3.1664E+00	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.8861E+00 7.5184E-01 3.1851E+00	P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 8.1042E+02 4.2553E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.884E-01 2.1173E+01	STANDING SHUCK	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02 1.0296E+01 1.6040E+00 1.9713E+00 7.8610E-01 3.5738E+00
P. T. RHO H. A. S. Z. GAME U. SPECIES. E-A. A.+	MOVING SHOCK 7-2235E+02 4-1442E+01 1-2410E+01 1-5691E+02 6-3236E+00 1-3886E+00 1-445E+01 1-9947E+01 2-8799E-01 4-2402E-01 2-8799E-01	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.7693E+00 1.7693E+00 3.1664E+00 MULE FRACTIONS 4.3480E-01 1.3051E-01 4.3459E-01	REFL ECTED SHOCK 1.0266E+04 6.0680F+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.5540E+01 3.1851E+00 4.6982E-01 6.0933E-02 4.6869E-01	P T RHD H A' S Z GAME U SPECIE E- A	MOVING SHOCK 8.1042E+02 4.2553E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.8884E-01 2.1173E+01 5.1661E-01 3.6677E-01	STANDING SHUCK 8.9880£*03 5.8912£*01 8.1949£*01 3.2099£*02 9.0205£*00 1.5464£*00 1.8617£*03 7.4189£*01 3.3674£*20 - MOLE FRACTIONS 4.6286E*01 7.4629E*02 4.6216E*01	REFLECTED SHOCK 1.2176E + 04 6.858 4E + 01 9.005 8E + 01 3.752 1E + 02 1.02 96E + 01 1.604 0E + 00 1.971 3E + 00 7.841 0E - 01 3.573 8E + 00 4.92 72 E - 01 1.9515 E - 02 4.82 81 E - 01
P T RHO H A S Z GAME U SPECIES E-A A+A++	MOVING SHOCK 7.22356+02 4.1442E+01 1.2410E+01 1.5691E+02 6.3236E+00 1.3886E+00 1.4045E+00 6.8701E-01 1.9947E+01 2.8799E-01 2.8799E-01 3.0359E-01	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.5010E+00 1.7693E+00 7.2120E+01 3.1664E+00 MULE FRACTIONS 4.3480E+01 1.3051E+01 4.3459E+01 1.0163E+01	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.8861E+00 7.5189E-01 3.1851E+00 4.6982E-01 6.0933E-02 4.6869E-01 5.6383E-04	P T RHD H A S Z GAME U SPECIE E- A A+	MOVING SHOCK 8.1042E+02 4.2553E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.8848E-01 2.1173E+01 S	STANDING SHUCK	REFLECTED SHOCK 1.2176E + 04 6.8584E + 01 9.0058E + 01 3.7521E + 02 1.0296E + 01 1.6040E + 00 1.9713E + 00 7.8410E - 01 3.5738E + 00 4.9272E - 01 1.9515E - 02 4.8281E - 01 4.9571E - 03
P T T RHO H A S Z GAME U SPECIES E-A A++A++	MOVING SHOCK 7-2235E+02 4-1442E+01 1-2410E+01 1-5691E+02 6-3236E+00 1-3886E+00 1-4445E+01 1-9947E+01 2-8799E-01 2-8799E-01 3-0059E-07 3-0668E-18	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8620E+92 8.3919E+00 1.7693E+00 7.2120E-01 3.1664E+00 MULE FRACTIONS 4.3480E-01 1.3051E-01 4.3459E-01 1.0163E-04 7.3808E-13	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.5540E+01 3.1851E+00 7.5188E-01 3.1851E+00 4.6982E-01 6.0933E-02 4.6869E-01 5.6383E-04 4.9954E-11	P T RHD H A S Z GAME U SPECIE E- A A+ A++	MOVING SHOCK 8.1042E+02 4.2553E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4633E+00 6.8884E-01 2.1173E+01 S	STANDING SHUCK	REFLECTED SHOCK 1.2176E+04 6.8884E+01 9.0058E+01 3.7521E+02 1.0296E+01 1.6040E+00 1.9713E+00 7.8410E+01 3.5738E+00 4.9272E-01 1.9515E-02 4.8281E-01 4.9571E-03 1.0225E-08
P T RHO H A S Z GAME U SPECIES E- A + A+++ A++++	MOVING SHOCK 7-2235E+02 4-1442E+01 1-2410E+01 1-5691E+02 6-3236E+00 1-3886E+00 1-4445E+01 6-8701E-01 1-9947E+01 2-8799E-01 4-2402E-01 2-8799E-01 6-0359E-07 3-0648E-18 4-5676E-37	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.501.0E+00 1.7693E+00 7.2120E-01 3.1664E+00 MULE FRACTIONS 4.3480E-01 1.3051E-01 4.3459E-01 1.01.63E-04 7.3808E-13 2.55493E-26	REFL ECTED SHOCK 1.0266E+04 6.0680F+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.8861E+00 7.5188E-01 3.1851E+00 4.6982E-01 6.0933E-02 4.6869E-01 5.6383E-04 4.9954E-11 6.5403E-23	P T RHD H A S Z GAME U SPECIE E- A A+ A+ A++	MOVING SHOCK 8.1042E+02 4.2553E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.8884E-01 2.1173E+01 5	STANDING SHUCK 8.9880E+03 5.8912E+01 8.1949E+02 9.0205E+00 1.5464E+00 1.8617E+00 7.4189E-01 3.3674E+00 - MOLE FRACTIONS 4.6286E-01 7.4629E-02 4.6216E-01 3.5068E-04 1.5113E-11 6.8832E-24	REFLECTED SHOCK 1.2176E+04 6.8584E+01 9.0058E+01 3.7521E+02 1.0296E+01 1.6040E+00 1.9713E+00 7.8410E-01 3.5738E+00 4.9272E-01 1.9515E-02 4.8281E-01 4.9571E-03 1.0225E-08
P T RHO H A S Z GAME U SPECIES E-A A++ A+++ A+++ AV	MOVING SHOCK 7.22356+02 4.1442E+01 1.2410E+01 1.5691E+02 6.3236E+00 1.3886E+00 1.4045E+00 6.8701E-01 1.9947E+01 2.8799E-01 2.8799E-01 2.8799E-01 3.059E-07 3.0648E-18 3.5676E-37	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.5010E+00 1.7693E+00 7.2120E+01 3.1664E+00 MULE FRACTIONS 4.3480E+01 1.3051E+01 4.3459E+01 1.0163E+04 7.3808E+13 2.5493E+26 7.2864E+46	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5560E+00 1.8861E+00 7.5188E-01 3.1851E+00 4.6982E-01 6.0933E-02 4.6869E-01 5.6383E-04 4.9954E-11 6.5403E-23 1.9816E-39	P T RHD H A S Z GAME U SPECIE E- A A+ A++ A+++ A+++	MOVING SHOCK 8.1042E+02 4.2553E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.8848E-01 2.1173E+01 S	STANDING SHUCK	REFLECTED SHOCK 1.2176E + 04 6.8584E + 01 9.0058E + 01 3.7521E + 02 1.0296E + 01 1.6040E + 00 1.9713E + 00 7.8410E - 01 3.5738E + 00 4.9272E - 01 1.9515E - 02 4.8281E - 01 4.9571E - 03 1.0225E - 08 1.1221E - 18 8.9324E - 33
P T RHO H A S Z GAME U SPECIES E- A + A+++ A++++	MOVING SHOCK 7-2235E+02 4-1442E+01 1-2410E+01 1-5691E+02 6-3236E+00 1-3886E+00 1-4445E+01 6-8701E-01 1-9947E+01 2-8799E-01 4-2402E-01 2-8799E-01 6-0359E-07 3-0648E-18 4-5676E-37	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8620E+02 8.391.9E+00 1.7693E+00 1.7693E+00 1.7693E+00 3.1664E+00 MULE FRACTIONS 4.3480E-01 1.3051E-01 4.3459E-01 1.0163E-04 7.3808E-13 2.5493E-26 7.2804E-45 6.4288E-69	REFL ECTED SHOCK 1.0266E+04 6.0680F+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5540E+00 1.5540E+00 3.1851E+00 4.6982E-01 6.0933E-02 4.6869E-01 5.6383E-04 4.9954E-11 6.5403E-23 1.9816E-39 6.1192E-61	P T RHD H A S Z GAME U SPECIE E- A A+ A++ A+++ AV	MOVING SHOCK 8.1042E+02 4.2555E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4623E+00 1.4633E+00 2.1173E+01 3.1661E-01 1.5012E-06 1.3370E-17 1.2511E-35 2.8587E-60	STANDING SHUCK	REFLECTED SHOCK 1.2176E + 04 6.858 4E + 01 9.005 8E + 01 3.752 1E + 02 1.02 96E + 01 1.604 0E + 00 1.971 3E + 00 7.841 0E - 01 3.573 8E + 00 4.92 72E - 01 1.9515E - 02 4.92 81E - 01 4.95 71E - 03 1.02 25E - 08 1.12 21E - 18 8.93 24E - 33 2.39 19E - 51
P T RHO H A S Z GAME U U SPECIES E-A A++ A+++ A+++ AV	MOVING SHOCK 7.22356+02 4.1442E+01 1.2410E+01 1.5691E+02 6.3236E+00 1.3886E+00 1.4045E+00 6.8701E-01 1.9947E+01 2.8799E-01 2.8799E-01 2.8799E-01 3.059E-07 3.0648E-18 3.5676E-37	STANDING SHOCK 7.6458E+03 5.5191E+01 7.8300E+01 2.8622E+02 8.3919E+00 1.5010E+00 1.7693E+00 7.2120E+01 3.1664E+00 MULE FRACTIONS 4.3480E+01 1.3051E+01 4.3459E+01 1.0163E+04 7.3808E+13 2.5493E+26 7.2864E+46	REFLECTED SHOCK 1.0266E+04 6.0680E+01 8.9702E+01 3.3190E+02 9.2765E+00 1.5560E+00 1.8861E+00 7.5188E-01 3.1851E+00 4.6982E-01 6.0933E-02 4.6869E-01 5.6383E-04 4.9954E-11 6.5403E-23 1.9816E-39	P T RHD H A S Z GAME U SPECIE E- A A+ A++ A+++ A+++	MOVING SHOCK 8.1042E+02 4.2553E+01 1.3015E+01 1.7534E+02 6.5492E+00 1.4229E+00 1.4633E+00 6.8848E-01 2.1173E+01 S	STANDING SHUCK	REFLECTED SHOCK 1.2176E + 04 6.8584E + 01 9.0058E + 01 3.7521E + 02 1.0296E + 01 1.6040E + 00 1.9713E + 00 7.8410E - 01 3.5738E + 00 4.9272E - 01 1.9515E - 02 4.8281E - 01 4.9571E - 03 1.0225E - 08 1.1221E - 18 8.9324E - 33

	# 8.5625E+02	9.6772E+03	1.3187E+04		P	9.5147E+02	1-1060E+04	1.5239E+04
ŕ		6.14168+01	7.2993E+01		T	- 4.42835+01	6.8500E+01	7.91165+01
	4.31186+31				RHU	1.3800E+01	8.1751E+01	9.3044E+01
RHO .	1+3294E+01	8.27205+01	9.0145E+01		н			
Н.	1.8494E+02	3.39008+02	3.9781E+02	•		2.0489E+02	3.7615E+02	4.4273E+02
A 14	6.6662E+00	.9.4267E+00	1.05286+01		Α -	6.9096E+00	1.0295E+01	1.0880E+01
S	1.4405E+00	1.5684E+00	1.6275E+00	, -	\$	1.4767E+00	1.6123E+00	1.6739E+00
. 2	1.4938E+00	1.9048E+00	2.0042E+00		Z	1.5569E+00	1.9750E+00	2.0702E+00
GAME	6.89916-01	7.5960E-01	7.5769E-01	•	GAME	6.9247E-01	7.8337E-01	7.2272E-01
U	2.1783E+01	3.5056E+30	3.7676E+00		U	2.2998E+01	3.8880E+00	4.0137E+00
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checies		. 46. 5. 50 457 1 1916			SPEC IES		- MULE FRACTIONS	
SPECIES	,	- MOLE FRACTIONS			3746163		- MOCC PRACTIONS	
. *		1.1				3.5/72E-01		5 1/0/5 61
E -	3.30578-01	4.7502E-01	5.0105E-01		E-		4.9366E-01	5.1696E-01
A.	3.3865E-01	5.0723E-02	1.1313E-02		A	2.8457E-01	1.7999E-02	6.0474E-03
Δ+ .	3.3J57E-01	4.7349E-01	4.74236-01		A+	3.5771E-01	4.8301E-01	4-3703E-01
A++	2.0475E-06	7.6261E-04	1.3408E-02		A++	3.8044E-06	, 5.3275E-03	3.9959E-02
A+++	2.8024E-17	1.0021E-10	1.21625-07		A+++	1.2351E-16	1.1694E-08	2.0658E-06
A++++	5.0d27E-35	2.2068E-22	1.0570E-16	•	A++++ .	. 8.6564E-34	1.3498E-18	2-0670E-14
AV	2.67468-59	1.2310E-38	1.1368E-29		AV	3.7635E-57	1.1195E-32	4.8894E-26
	1.7760E-89	7.22906-60	7.1859E-47	,	AVI	3.7447E-87	3.0989E-51	1.33716-41
AVI					IIVA		8.8631E-77	4.4652E-63
AVIE	0.	3.0922E-89	1.4420E-70			o.		
LIIVA		.	0		I I I VA	J.	0.	2.2969E-89
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.		1151- 7 00540	3. M.CCC		D1 + 2	0.005401 N/SC-W	. 1151 = 0 20540	.a w/sec .
P1 = 2	2.00E+01 N/SQ-M	. US1= 7.80E+0	3 M/SEC		P1 = 2	2.00E+01 N/SQ-N	. US1= 8.20E+0	3 M/SEC .
P1 = 2	2.00E+01 N/SQ-M	. US1= 7.80E+0	3 M/SEC		P1 = 2	2.00E+01 N/SQ-M	, US1= 8.20E+0	3 M/SEC .
P1 = 2			•		P1 = 2			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MUVING SHUCK	STANDING SHUCK	REFLECTED SHOCK
P	MOVING SHOCK 9-0327E+02	STANDING SHOCK	REFLECTED SHOCK 1.4206E+04		ρ.	MOVING SHUCK 1.0009E+03	STANDING SHUCK	REFLECTED SHOCK 1.6280E+04
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		P T	MUVING SHUCK 1.00J9E+03 4.4889E+01	STANDING SHUCK 1.1776E+04 7.2244E+01	REFLECTED SHOCK 1.6280E+04 8.1366E+01
P	MOVING SHOCK 9-0327E+02	STANDING SHOCK	REFLECTED SHOCK 1.4206E+04		ρ.	MUVING SHUCK 1.00J9E+03 4.4889E+01 1.4027E+01	STANDING SHUCK 1.1776E+04 7.2244E+01 8.1386E+01	REFLECTED SHOCK 1.6280E+04
P T RHO	MOVING SHOCK 9.0327E+02 4.3694E+01 1.3556E+01	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01	REFLECTED SHOCK 1.4206E+04 7.6412E+01 9.1288E+01		P T	MUVING SHUCK 1.00J9E+03 4.4889E+01	STANDING SHUCK 1.1776E+04 7.2244E+01	REFLECTED SHOCK 1.6280E+04 8.1366E+01
P T RHO H	MOVING SHOCK 9.0327E+02 4.3694E+01 1.3856E+01 1.9479E+02	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02	REFLECTED SHOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02		P T RHO	MUVING SHUCK 1.00J9E+03 4.4889E+01 1.4027E+01	STANDING SHUCK 1.1776E+04 7.2244E+01 8.1386E+01	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01
Р Т RHO Н	MOVING SHOCK 9-0327E+02 4-3694E+01 1-3556E+01 1-9479E+02 6-7862E+00	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00	REFLECTED SHOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0694E+01		P T RHO H	MOVING SHUCK 1.0009E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00	STANDING SHUCK 1-1776E+04 7-2244E+01 8-1386E+01 3-9541E+02 1-0483E+01	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01
P T RHO H A	MOVING SHOCK \$-0327E+02 4-3694E+01 1-3556E+01 1-9479E+02 6-7862E+00 1-4585E+00	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.899E+00 1.5909E+03	REFLECTED SHOCK 1.4206E+04 7.6412E+01 9.1284E+01 4.2019E+02 1.0649E+01 1.6495E+00		P T RHO H A	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.4951E+00	STANDING SHUCK 1-1776+04 7-2244+01 8-1386E+01 3-9541E+02 1-0483E+01 1-6328E+00	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00
P T RHO H A S	MOVING SHOCK 9.0327E+02 4.3694E+01 1.3556E+01 1.9479E+02 6.7862E+00 1.4585E+00	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 1.9431E+00	REFLECTED SHOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365F+00		P T RHO H A S	MUVING SHUCK 1.00J9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370E+00 1.4951E+00 1.5895E+00	STANDING SHUCK 1.1776+04 7.2244501 8.13865+01 3.9541E+02 1.0483E+01 1.6328E+00 2.0028E+00	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00
P T RHO H A S Z GAME	MOVING SHOCK 9-0327E+02 4-36-94E+01 1-3556E+01 1-94-92E+00 1-45-85E+00 1-5250E+00 6-9112E-01	\$TANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+30 1.9431E+00 7.8048E-01	REFLECTED SMOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365F+00 7.3494E-01		P T RHO H A S Z GAME	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.4951E+00 1.5895E+00 6.9401E-01	STANDING SHUCK 1.1776E-04 7-224E-01 8-1386E-01 3.9541E-02 1.0483E-01 1.6328E-00 2.0028E-00 7.5950E-01	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+90 7.1627E-01
P T RHO H A S	MOVING SHOCK 9.0327E+02 4.3694E+01 1.3556E+01 1.9479E+02 6.7862E+00 1.4585E+00	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 1.9431E+00	REFLECTED SHOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365F+00		P T RHO H A S	MUVING SHUCK 1.00J9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370E+00 1.4951E+00 1.5895E+00	STANDING SHUCK 1.1776+04 7.2244501 8.13865+01 3.9541E+02 1.0483E+01 1.6328E+00 2.0028E+00	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00
P T RHO H A S Z GAME	MOVING SHOCK 9-0327E+02 4-36-94E+01 1-3556E+01 1-94-92E+00 1-45-85E+00 1-5250E+00 6-9112E-01	\$TANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+30 1.9431E+00 7.8048E-01	REFLECTED SMOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365F+00 7.3494E-01		P T RHO H A S Z GAME	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.4951E+00 1.5895E+00 6.9401E-01	STANDING SHUCK 1.1776E-04 7-224E-01 8-1386E-01 3.9541E-02 1.0483E-01 1.6328E-00 2.0028E-00 7.5950E-01	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+90 7.1627E-01
P T RHO H A S Z GAME U	MOVING SHOCK \$-0327E+02 4-3694E+01 1-3556E+01 1-9479E+02 6-7862E+00 1-4585E+00 6-9112E-01 2-2391E+01	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 1.9431E+00 7.8048E-01 3.0804E+J0	REFLECTED SMOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365E+00 7.3494E-01 3.9046E+00		P T RHO H A S S Z GAME U	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.4951E+00 1.5895E+00 6.9401E-01 2.3602E+01	STANDING SMUCK 1.1776E-04 7-2244E-01 8-1386E-01 3.9541E-02 1.0483E-01 1.6328E-00 2.0028E+00 7.5950E-01 4.0747E+00	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E-01 4.0882E+00
P T RHO H A S Z GAME	MOVING SHOCK \$-0327E+02 4-3694E+01 1-3556E+01 1-9479E+02 6-7862E+00 1-4585E+00 6-9112E-01 2-2391E+01	\$TANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+30 1.9431E+00 7.8048E-01	REFLECTED SMOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365E+00 7.3494E-01 3.9046E+00		P T RHO H A S Z GAME	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.4951E+00 1.5895E+00 6.9401E-01 2.3602E+01	STANDING SHUCK 1.1776E-04 7-224E-01 8-1386E-01 3.9541E-02 1.0483E-01 1.6328E-00 2.0028E-00 7.5950E-01	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E-01 4.0882E+00
P T RHO H A S Z GAME U	MOVING SHOCK 9-0327E+02 4-3694E+01 1-3556E+01 1-9479E+00 1-4585E+00 1-5250E+00 6-9112E-01 2-2391E+01	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+30 1.9431E+00 7.8048E-31 3.8804E+30	REFLECTED SMOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0644E+01 1.6495E+00 2.0365F+00 7.3494E-01 3.9046E+00		P T RHO H A S Z GAME U	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.5895E+00 6.9401E-01 2.3602E+01	STANDING SHUCK 1.1776E-04 7-224E-01 8-1386E-01 3-9541E-02 1.0483E-01 1.6328E-00 2.0028E-90 7.5950E-01 4.0747E+00	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E-01 4.0882E+00
P T RHO H A S Z GAME U	MOVING SHOCK 9-0327E+02 4-3694E+01 1-3556E+01 1-9479E+00 1-4585E+00 1-5250E+00 6-9112E-01 2-2391E+01	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 1.9431E+00 7.8048E-01 3.0804E+J0	REFLECTED SMOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365E+00 7.3494E-01 3.9046E+00		P T RHO H A S S Z GAME U	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.4951E+00 1.5895E+00 6.9401E-01 2.3602E+01	STANDING SMUCK 1.1776E-04 7-2244E-01 8-1386E-01 3.9541E-02 1.0483E-01 1.6328E-00 2.0028E+00 7.5950E-01 4.0747E+00	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E-01 4.0882E+00
P T RHO H A S Z GAME U	MOVING SHOCK \$-0327E+02 \$-369E+01 1-3556E+01 1-9479E+02 6-7862E+00 1-5250E+00 6-9112E-01 2-2391E+01	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+30 1.9431E+00 7.8048E-31 3.8804E+30	REFLECTED SMOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0644E+01 1.6495E+00 2.0365F+00 7.3494E-01 3.9046E+00		P T RHO H A S Z GAME U	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.4951E+00 1.5895E+00 6.9401E-01 2.3602E+01	STANDING SHUCK 1.1776E-04 7-224E-01 8-1386E-01 3-9541E-02 1.0483E-01 1.6328E-00 2.0028E-90 7.5950E-01 4.0747E+00	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E-01 4.0882E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK \$-0327E+02 4-3694E+01 1-3556E+01 1-4479E+02 6-7862E+00 1-5250E+00 6-9112E-01 2-2391E+01	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 1.5909E+00 7.8048E-01 3.6804E+00 - MOLE FRACTIONS 4.8536E-01 3.1208E-02	REFLECTED SHOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365F+00 7.3494E-01 3.9046E+00		PTRHOHAASEGAMEU	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.4951E+00 1.5895E+00 6.9401E-01 2.3602E+01	\$TANDING \$MUCK 1.1776E-04 7-2244E-01 8-1386E-01 3.9541E-02 1.0483E-01 1.6328E-00 2.0028E-90 7.5950E-01 4.0747E-00	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E+01 4.0882E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 9-0327E+02 4-36-94E+01 1-3556E+C1 1-94-79E+02 6-7862E+00 1-5250E+00 6-9112E-01 2-2391E+01 3-4428E-01 3-4428E-01 3-4428E-01	\$TANDING \$HOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 1.9431E+00 7.8048E+01 3.0804E+00 - MOLE FRACTIONS 4.8536E-01 3.1208E-02 4.8150E-01	REFLECTED SMOCK 1.4206E+04 7.6412F+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365F+00 7.3494E-01 3.9046E+00 5.0896E-01 7.8335E-03 4.5747E-01		P T RHO H A S Z GAME U SPECIES E- A A+	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.4951E+00 1.5895E+00 6.9401E-01 2.3602E+01	STANDING SHUCK 1.1776-E-04 7-224-E-01 8-138-6E-01 3.954-1E-02 1.048-3E-01 1.632-8E-00 2.002-8E-00 7.5950E-01 4.074-7E-00 - MULE FRACTIONS 5.0071E-01 1.1179E-02 4.7553E-01	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E+01 4.0882E+00
P T RHO H A S Z Z GAME U SPECIES E-A A+A++	MOVING SHOCK \$-0327E+02 \$-3694E+01 1-3556E+01 1-9479E+02 6-7862E+00 1-5250E+00 6-9112E-01 2-2391E+01 3-4428E-01 3-4428E-01 2-7922E-06	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 1.9431E+00 7.8048E-01 3.0804E+00	REFLECTED SHOCK 1.4206E+04 7.6412F+01 9.1288E+01 4.2019F+02 1.0649E+01 1.6495E+00 2.0365F+00 7.3494E-01 3.9046E+00		PTRHOHASSZGAMEUUSPECIES	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.5995E+00 6.9901E-01 2.3602E+01 3.7087E-C1 2.5826E-01 3.7086E-01 5.1968E-01	STANDING SHUCK 1.1776E+04 7.2244E+01 8-1386E+01 3-9541E+02 1.0483E+01 2.0028E+00 2.0028E+00 7.5950E-01 4.0747E+00 - MULE FRACTIONS 5.0071E-01 1.1179E-02 4.7553E-01 1.2550E-02	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E+01 4.0882E+00 5.2493E+01 4.9638E+03 4.1530E+01 5.4804E+02
P T RHO H A S Z Z GAME U SPECIES & A A +++ A +++	MOVING SHOCK \$-0327E+02 4-3694E+01 1-3556E+01 1-3556E+01 1-4585E+00 1-5250E+00 6-9112E-01 2-2391E+01 3-1144E-01 3-4428E-01 2-7922E-06 5-9356E-17	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.899E+00 1.5909E+03 1.9431E+00 7.8048E-01 3.6804E+00 4.8536E-01 3.1208E-02 4.8150E-01 1.9299E-03 9.6880E-10	REFLECTED SMDCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365F+00 7.3494E-01 3.9046E+00 5.0896E-01 7.8335E-03 4.5744E-01 2.5744E-02 6.4460E-07		P T RHO H A S Z GAME U SPECIES	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.595E+00 1.595E+01 2.3602E+01 3.7087E-01 2.5826E-01 3.7086E-01 5.1968E-06 2.5782E-16	STANDING SHUCK 1.1776E-04 7.224E-01 8.1386E-01 3.9541E-02 1.0483E-01 1.6328E-00 2.0028E-90 7.5950E-01 4.0747E-00 - MULE FRACTIONS 5.0071E-01 1.1179E-02 4.7553E-01 1.2550E-02 9.9162E-08	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E-01 4.0882E+00 5.2493E-01 4.9638E-03 4.1530E-01 5.4804E-02 4.9332E-06
PTRHOHA AS Z GAME U SPECIES E-AA+A++A+++	MOVING SHOCK 9-0327E+02 4-36-94E+01 1-3556E+01 1-9479E+02 6-7865E+00 1-5250E+00 6-9112E-01 2-2391E+01 3-4428E-01 3-4428E-01 2-7922E-06 5-9356E-17 2-2387E-34	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 1.5909E+01 3.0804E+J0 - MOLE FRACTIONS 4.8536E-01 3.1208E-02 4.8150E-01 1.9299E-03 9.6880E-10 1.4224E-20	REFLECTED SMOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365F+00 7.3494E-01 3.9046E+00 5.0896E-01 7.8335E-03 4.5747E-01 2.5744E-02 6.4480E-07 2.3268E-15		P T RHO H A S Z GAME U SPECIES E-A A+A++A+++	MUVING SHUCK 1.00.98E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.4951E+00 1.5895E+00 6.9401E-01 2.3602E+01 3.7087E-01 2.5326E-01 3.7086E-01 3.7086E-06 2.5782E-16 3.2300E-33	STANDING SHUCK 1.1776E-04 7.2244E-01 8.1386E-01 3.9541E-02 1.0483E-01 1.6328E-00 2.0028E-90 7.5950E-01 4.0747E-00 - MOLE FRACTIONS 5.0071E-01 1.1179E-02 4.7553E-01 1.2550E-02 9.9162E-08 6.8117E-17	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+00 2.1049E+00 7.1627E+01 4.0882E+00 5.2493E+01 4.9638E+03 4.1530E+01 5.4804E+02 4.9332E+06 1.0829E+13
P T T RHO H A S Z GAME U SPECIES E-A A++++++++++++++++++++++++++++++++++	MOVING SHOCK \$-0327E+02 \$-3694E+01 1-3556E+01 1-9479E+02 6-7862E+00 1-2550E+00 6-9112E-01 2-2391E+01 3-1144E-01 3-4428E-01 2-7922E-06 5-9356E-17 2-2387E-34 4-5150E-58	STANDING SHOCK 1-0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 7.8048E-01 3.0804E+00	REFLECTED SHOCK 1.4206E+04 7.6412F+01 9.1288E+01 4.2019F+02 1.069FE+00 2.0365F+00 7.3494E-01 3.9046E+00 5.0896E-01 7.833EE-03 4.57747E-01 2.5744E-02 6.4480E-07 2.3268E-15 1.5137E-27		P T RHO H A S Z GAME U SPECIES E-A A+A++A+++A+++A+++A+++A+++A+++A+++A+++	MOVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.595E+00 6.9401E-01 2.3602E+01 3.7087E-01 2.5826E-01 3.7086E-01 5.1968E-06 2.5782E-16 3.2300E-33 2.2743E-56	STANDING SHUCK 1.1776E+04 7.2244E+01 8.1386E+01 3.9541E+02 1.0483E+01 2.0028E+00 7.5950E-01 4.0747E+00 - MULE FRACTIONS 5.0071E-01 1.1179E-02 4.7553E-01 1.2550E-02 9.9162E-08 6.8117E-17 5.3224E-30	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E-01 4.0882E+00 5.2493E-01 4.9638E-03 4.1530E-01 5.4804E-02 4.9332E-06 1.0829E-13 6.9764E-25
P T RHO H A S Z GAME U SPECIES A A+++ A++++ A++++ AV	MOVING SHOCK %-0327E+02 4-3694E+01 1-3556E+C1 1-9479E+00 1-5250E+00 1-5250E+00 6-9112E-01 2-2391E+01 3-1144E-01 3-4428E-01 2-7922E-06 5-9356E-17 2-2387E-34 4-2150E-58 1-5239E-88	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 7.8048E-01 3.0804E+00	REFLECTED SMOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365F+00 7.3494E-01 3.9046E+00 5.0896E-01 7.8335E-03 4.5747E-01 2.5744E-02 6.4480E-07 2.3268E-15 1.5137E-27 8.6109E-44		P T RHO H A S Z GAME U SPECIES E- A A + A + + + + A + + + A V I	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.5895E+00 6.9401E-01 2.3602E+01 3.7087E-01 2.5826E-01 3.7086E-06 2.5782E-16 3.2300E-33 2.2743E-56 2.4713E-86	STANDING SHUCK 1.1776E-04 7-224E-01 8-1386E+01 3-9541E-02 1.0483E-01 1.6328E-00 2.0028E-90 7.5950E-01 4.0747E+00 - MULE FRACTIONS 5.0071E-01 1.1179E-02 4.7553E-01 1.2550E-02 9.9162E-08 6.8117E-17 5.322E-30 2.2453E-47	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E-01 4.0882E+00 5.2493E-01 4.9638E-03 4.1530E-01 5.4804E-02 4.9332E-06 1.0829E-13 6.9764E-25 6.5334E-40
P T T RHO H A S Z GAME U SPECIES E-A A++++++++++++++++++++++++++++++++++	MOVING SHOCK \$-0327E+02 \$-3694E+01 1-3556E+01 1-9479E+02 6-7862E+00 1-2550E+00 6-9112E-01 2-2391E+01 3-1144E-01 3-4428E-01 2-7922E-06 5-9356E-17 2-2387E-34 4-5150E-58	STANDING SHOCK 1-0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 7.8048E-01 3.0804E+00	REFLECTED SHOCK 1.4206E+04 7.6412F+01 9.1288E+01 4.2019F+02 1.069FE+00 2.0365F+00 7.3494E-01 3.9046E+00 5.0896E-01 7.833EE-03 4.57747E-01 2.5744E-02 6.4480E-07 2.3268E-15 1.5137E-27		P T RHO H A S Z GAME U SPECIES E-A A+A++A++A++AVAVII	MUVING SHUCK 1.00.98E+01 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.5895E+00 6.9401E-01 2.3602E+01 3.7087E-01 2.5826E-01 3.7086E-01 5.1968E-06 2.5782E-16 3.2300E-33 2.2743E-56 2.4713E-86	STANDING SHUCK 1.1776E+04 7-2244E+01 8-1386E+01 3-9541E+02 1.0483E+01 1.6328E+00 2.0028E+90 7.5950E-01 4.0747E+00 - MULE FRACT(GNS 5.0071E-01 1.1179E-02 4.7553E-01 1.2550E-02 9.9162E-08 6.8117E-17 5.3224E-30 2.2453E-47 2.5559E-71	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E-01 4.0882E+00 5.2493E-01 4.9638E-03 4.1530E-01 5.4804E-02 4.9332E-06 1.0829E-13 6.9764E-25 6.5334E-40 1.1835E-60
P T RHO H A S Z GAME U SPECIES A A+++ A++++ A++++ AV	MOVING SHOCK %-0327E+02 4-3694E+01 1-3556E+C1 1-9479E+00 1-5250E+00 1-5250E+00 6-9112E-01 2-2391E+01 3-1144E-01 3-4428E-01 2-7922E-06 5-9356E-17 2-2387E-34 4-2150E-58 1-5239E-88	STANDING SHOCK 1.0368E+04 6.4623E+01 8.2571E+01 3.5739E+02 9.8998E+00 1.5909E+00 7.8048E-01 3.0804E+00	REFLECTED SMOCK 1.4206E+04 7.6412E+01 9.1288E+01 4.2019E+02 1.0649E+01 1.6495E+00 2.0365F+00 7.3494E-01 3.9046E+00 5.0896E-01 7.8335E-03 4.5747E-01 2.5744E-02 6.4480E-07 2.3268E-15 1.5137E-27 8.6109E-44		P T RHO H A S Z GAME U SPECIES E- A A + A + + + + A + + + A V I	MUVING SHUCK 1.00.9E+03 4.4889E+01 1.4027E+01 2.1525E+02 7.0370F+00 1.5895E+00 6.9401E-01 2.3602E+01 3.7087E-01 2.5826E-01 3.7086E-06 2.5782E-16 3.2300E-33 2.2743E-56 2.4713E-86	STANDING SHUCK 1.1776E-04 7-224E-01 8-1386E+01 3-9541E-02 1.0483E-01 1.6328E-00 2.0028E-90 7.5950E-01 4.0747E+00 - MULE FRACTIONS 5.0071E-01 1.1179E-02 4.7553E-01 1.2550E-02 9.9162E-08 6.8117E-17 5.322E-30 2.2453E-47	REFLECTED SHOCK 1.6280E+04 8.1366E+01 9.5055E+01 4.6527E+02 1.1076E+01 1.6916E+00 2.1049E+00 7.1627E-01 4.0882E+00 5.2493E-01 4.9638E-03 4.1530E-01 5.4804E-02 4.9332E-06 1.0829E-13 6.9764E-25 6.5334E-40

MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	ADULTIC SUBSECT STANDING SUBSECTION SUBSECTION SUBSECTIONS
	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1-1559E+03 1-4125E+04 1-9486E+04
P 1.0514E+03 1.2531E+04 1.7337E+04	
T 4.5519E+01 7.5391E+01 8.3359E+01	T 4.6875E+01 8.0046E+01 8.6900E+01
RHD 1.4234E+01 8.1801E+01 9.7145E+01	RHO 1.4586E+01 8.4272E+01 1.0119E+02
H 2.2586E+02 4.1524E+02 4.8820E+02	H 2.4785E+02 4.5650E+02 5.3541E+02
A 7.16885+00 1.0627E+01 1.1278E+01	A 7.4494E+30 1.0965E+01 1.1692E+01
\$ 1.5138E+00 1.6533E+00 1.7124E+00	S 1.5519E+00 1.6926E+00 1.7540E+00
Z 1.6227E+00 2.0319E+00 2.1409E+00	Z 1.6906E+00 2.0939E+00 2.2161E+00
GAME 6.9578E-01 7.3722E-01 7.1271E-01	GAME 7.0026E-01 7.1730E-01 7.0986E-01
U 2.4205E+01 4.2150E+00 4.1545E+00	U 2.5404E+01 4.4043E+00 4.2773E+00
0 2.42054-01 4.215064-00 4.15456-00	2.54042401 4.40432400 4.27732400
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
SPECIES MUEE PRACTIONS	SPECIES SHEET HALF THAT I HAVE PRACTICALS
E- 3.8373E-01 5.0784E-01 5.3291E-01	E= 4.0850E-01 5.2242E-01 5.4876E-01
2007072 01 2007072 01	
A 2.3255E-01 7.8351E-03 4.2097E-03	
A+ 3.8372E-01 4.6081E-01 3.9287E-01	A+` 4.0847E-01 4.2278E-01 3.4740E-01
A++ 7.1420E-06 2.3514E-02 7.0004E-02	A++ .1.3893E-05 4.9817E-02 1.0063E-01
A+++ 5.5119E-16 4.8578E-07 9.9664E-06	A+++ 2.7640E-15 3.5910E-06 3.0331E-05,
A++++ 1.3083E-32 1.2853E-15 4.1959E-13	A++++ 2.8808E-31 5.5175E-14 3.7242E-12:
AV 1.6409E-55 5.4994E-28 6.1985E-24	AV 3.9291E-53 2.1888E-25 2.1654E-22
AVI 3.2309E-84 1.8349E-44 1.6006E-38	AVI 2.6340E-81 1.0967E-40 3.0035E-36
AVII J. 3.4367E-67 1.1489E-58	AVII 0. 7.9317E-62 2.1312E-55
AVIII 1 0. 0. 2.4764E-83	AVIII 0. 1.0940E-87 6.4630E-79
•	·
	D1 - 2 005 04 W/60 W WEST- 0 005 02 W/655
P1 = 2.00E+01 N/SQ-M, US1= 8.60E+03 N/SEC	Pl = 2.00E+01 N/SQ-M, US1= 9.00E+03 M/SEC .
P1 = 2.00E+01 N/SQ-M; US1= 8.60E+03 N/SEC	Pl = 2.00E+01 N/SQ-M, US1= 9.00E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1031E+03 1.3317E+04 1.8406E+04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1-2099E+03 1-4946E+04 2-0568E+04.
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1:2099E+03 1.4946E+04 2.0568E+04. T 4.7619E+01 8.1956E+01 8.8536E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1031E+03 1.3317E+04 1.8406E+04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1-2099E+03 1-4946E+04 2-0568E+04.
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1031E+03 1.3317E+04 1.8406E+04 T 4.6178E+01 7.7926E+01 8.5183E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1:2099E+03 1.4946E+04 2.0568E+04. T 4.7619E+01 8.1956E+01 8.8536E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1031E+03 1.3317E+04 1.8406E+04 T 4.6178E+01 7.7926E+01 8.5183E+01 RHO 1.4421E+01 8.2860E+01 9.9210E+01 H 2.3673E+02 4.3561E+02 5.1154E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2099E+03 1.4946E+04 2.0568E+04. T 4.7619E+01 8.1956E+01 8.8536E+01. RHO 1.4726E+01 8.5718E+01 1.0302E+02. H 2.5922E+02 4.7787E+02 5.5949E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1031E+03 1.3317E+04 1.8406E+04 T 4.0178E+01 7.7926E+01 8.5183E+01 RHO 1.4421E+01 8.2860E+01 9.9210E+01 H 2.3673E+02 4.3561E+02 5.1154E+02 A 7.3059E+00 1.0790E+01 1.1483E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1:2099E+03 1.4946E+04 2.0568E+04. T 4.7619E+01 8.1950E+01 8.8536E+01. RHO 1:4726E+01 8.5718E+01 1.0302E+02 H 2.5922E+02 4.7787E+02 5.5969E+02 A 7.6007E+00 1.1151E+01 1.1903E+01
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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1031E+03 1.3317E+04 1.8406E+04 T 4.6178E+01 7.7926E+01 8.5183E+01 RHO 1.4421E+01 8.2860E+01 9.9210E+01 H 2.3673E+02 4.3561E+02 5.1154E+02 A 7.3059E+00 1.0790E+01 1.1483E+01 S 1.5327E+00 1.6732E+00 1.7331E+00 Z 1.6564E+00 2.0624E+00 2.1779E+00 GAME 6.9783E-01 7.2438E-01 7.1079E+01 U 2.4896E+01 4.3208E+00 4.2148E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2099E+03 1.4946E+04 2.0568E+04. T 4.7619E+01 8.1956EF+01 8.8536E+01. RHD 1.4726E+01 8.5718E+01 1.0302E+02 H 2.5922E+02 4.7787E+02 5.5969E+02 A 7.6007E+00 1.1151E+01 1.1903E+01 S 1.5712E+00 1.7125E+00 1.7750E+00 2.1275E+00 2.2551E+00 GAME 7.0319E-01 7.1314E-01 7.0961E-01 U 2.6000E+01 4.4747E+00 4.3352E+00 CONTROL SPECIES SPECIE
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	MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	1.2649E+03	1.5770E+04	2.1642E+04	· Р	1.3780E+03	1.7383E+04	2.3719E+04
Ť	4.8426E+01	8.3697E+01	9.01216+01	T	5.0324E+01	8.6845E+01	9.3179E+01
RHO	1.4839E+01	8.7145E+01	1.0464E+02	RHO	1.4960E+01	8.9578E+01	1.0711E+02
н	2.7084E+02	4.9969E+02	5.8442E+02	н	2.9484E+02	5.4460E+02	6.3521E+02
A	7.76215+00	1.13416+01	1.21176+01	Α .	8.1301E+00	1.17298+01	1.2551E+01
ŝ	1.5906F+00	1.7325E+00	1.7964E+00	S	1.6297E+00	1.77316+00	1.8394E+00
2	1.76025+00			ž	1.8303E+00	2.23456+00	2.3765E+00
GAME	7.0683E-01	2.1622E+00 7.1075E-01	2.2950E+00	ĜAME	7.1761E-01	7.0889E-01	7.1141E-01
U .	2.6592E+01		7.0985E-01	U-	2.7765E+01	4.6449E+00	4.5064E+00
U	2.03925+01	4.5358E+00	4.3922E+00	U	2.11652401	4.04476700	4. 30045 400
SPEC IES	5	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	
		-					
E -	4.3189E-01	5.3750E-01	5.6427E-01	E-	4.5365E-01	5.5248E-01	5.7922E-01
A	1.3625E-01	3.6260E-03	2.4756E-03	A · ',	9.2767E-02	2.7867E-03	1.9300E-03
A +	4.3183E-01	3.8025E-01	3.0232E-01	A+	4.5352E-01	3.3703E-01	2.5865E-01
A++-	2.8800E-05	7.8608E-02	1.3087E-01	A++	6.7369E-05	1.0767E-01	1.6005E-01
A+++	1.6023E-14	1.3328E-05	7.3693E-05	A+++	1.2386E-13	3.5650E-05	1.5718E-04
A++++	7.5270E-30	6.9017E-13	2.2122E-11	A++++	3.1491E-28	4.7856E-12	1.0433E-10
AV	6.9346E-51	1.2942E-23	4.0541E-21	AV	2.0959E-48	3. 3292E-22	5.2935E-20
AVI	4.8290E-78	4.3944E-38	2.31 26E-34	AVI	5.4394E-75	4.5571E-36	1.0567E-32
IIVA	0.	4.4631E-58	1.14286-52	IIVA	0.	3.4906E-55	2.8897E-50
LIIVA	ō.	1.4445E-82	3.3854E-75	AVITI	J.	1.15306-78	6.2765E-72
					•		
		•			*	*	
							•
			•				
h1 = .5	2.00E+01 N/SQ-M	. US1= 9.40E+0	3 M/SEC	P1 = 2	.UOE+01 N/SQ-M	. US1= 9.80E+0	13 M/SEC .
				•			
	MOVING SHOCK	CTANDING CHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
		STANDING SHOCK		ρ	1.43598+03	1.8138E+04	2.4678E+04
P	1.3209E+03	1.6586E+04	2.2697E+04	Ť			9.4679E+01
Ţ	4.9316E+01	8.53156+01	9.16598+01		5.1495€+01	8.8301E+01	
RHD	1.4919E+01	8.8455E+01	1.0603E+02	RHO	1.4953E+01	9.0413E+01	1.0778E+02
н	2.8271E+02	5.2193E+02	6.0958E+02	H	3-0721E+02	5.6761E+02	6.6120E+02
Α .	7.9367E+00	1.1534E+01	1.2332E+01	A	8.35088+00	1.1925E+01	1.2773E+01
S	1.6101E+00	1.7527E+00	1.8177E+00	S	1.6493E+30	1.79386+00	1.8614E+00
, Z	1.7953E+00	2.1979E+00	2.3353E+00	2,	1.8649E+90	2.2719E+00	2.4182E+00
GAME	7.1146E-01	7.0946E-01	7.1047E-01	GAME	7.2617E-01	7.3882E-01	7.1262E-01
U	2.7180E+01	4.5921E+00	4.4492E+00	U	Z-8342£+01	4.6953E+00	4.5642E+00
_				•			
-							
SPECIES	5	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	
F-	4.4299E-01	E / E 0.2C 01	E 71 70 E - 01	È-	4.6377E-01	5.5984E-01	5.8648E-01
		5.4502E+01	5.7179E-01		7.2566E-02		1.6946E-03
A .	1.1407E-01	3.1672E-03	2.1889E-03	A		2.4608E-03	2.3741E-01
A+	4.4290E-01	3.5863E-01	2.8035E-01	A+	4.6355F-01	3.1562E-01	
A++	4.3141E-05	9.3161E-02	1.4556E-01	A++	1.1169E-04	1.2203E-01	1.7420E-01
A+++	4.2369E-14	2.2430E-05	1.0882E-04	A+++	4.2606E-13	5.4201E-05	2.2272E-04
A++++	4.4865E-29	1.91416-12	4.8979E-11	A++++	3.2304E-27	1.1060E-11	2.1492E-10
AV	1.1279E-49	6.8007E-23	1.5110E-20	AV	1.0008E-46	1.1989E-21	1.7602E-19
IVA	2.5920E-76	5.0629E-37	1.6388E-33	AVI	5.1311E-72	3.5083E-35	6.3184E-32
AVII	0.	1.5038E-56	1.9568E-51	IIVA	0.	6.7426E-54	3.82928-49
~							2 00245 70

P1 =	2.00E+01 N/SQ-M	. US1= 1.00E+0	4 M/SEC	P1 = 2	.00E+01 N/SQ-M	. US1= 1.04E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
р.	1.4946E+03	1.8822E+04	2 • 553 8E +04	P	1.61308+03	1.9802E+04	2.6734E+04
T	5.2907E+01	8.9694E+01	9.6164E+01	Ţ	5.7020E+01	9-22826+01	9.90898+01
RHO	1.4880E+01	9.0850E+01	1.0794E+02	ŔHO	1.4450E+01	8.9893E+01	1.0597E+02
н .	3.1982E+02	5.9092E+02	6.8751E+02	H	3.4574E+02	6.38C2E+02	7.4106E+02
À .	8.6132E+00	1.21215+01	1.2998E+01	`` `	9.3463E+00	1.2511E+01	1.3457E+01
Š	1.6688E+00	1.8148E+00	1.8837E+00	Š	1.7069E+00	1.8580E+00	1.9300E+00
ž	1.8984E+00	2.3099E+00	2.4604E+00	ž	1.9576F+00	2.3870E+00	2.5459E+00
GAME	7.3864E-01	7.0913E-01	7.1410E-01	GAME	7.8256E-01	7.1054E-01	7.1782E-01
U	2.8911E+01	4.7434E+00	4.6223E+00	Ü -	3.0003E+01	4.831 0E+00	4.7625E+00
SPEC 1E		- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	
	9	- MOLE PRACTIONS				- HOLE PRACTIONS	,
E- '	4.7324E-01	5.67C7E-01	5.9356E-01	€-	4.8918E-01	5.8107E-01	6.0720E-01
Α .	5.3727E-02	2.1744E-03	1.4784E-03	A	2.26188-02	1.6823E-03	1.0903E-03
A+ '	4.7283E-01	2.9451E-01	2.1668F-01	A+	4.8723E-01	2.5359E-01	1.7679E-01
A + +	2.0091E-04	1.3616E-01	1.8797E-01	A++	9.7683E-04	1.6350E-01	2.1432E-01
A+++	1.7687E-12	7.9575E-05	3.1082E-04	A+++	8.2827E-11	1.5804E-04	, 5.8703E-04
A++++	4.4066E-26	2.3950E-11	4.3126E-10	A++++	5.0662E-23	9.6447E-11	1.6470E-09
AV	6.0690E-45	4.2599E-21	5.6171E-19	AV	3.8352E-40	4.2167E-20	5.2520E-18
AVI .	1.91986-69	2.2800E-34	3.5606E-31	IVA	1.5352E-62	6.7732E-33	9.9572E-30
IIVA	ა. ·	9.8923E-53	4.6688E-48	IIVA	J.	1.3021E-50	5.7620E-46
IIIVA	0.	2.47185-75	6.2206E-69	IIIVA	J.	1.8188E-72	4.3397E-66
P1 =	2.00E+01 N/SQ-M	• US1≈ 1.02E+0	4 M/SEC	P1 = 2	.00E+01 N/S4-N	, US1= 1.06E+0	4 M/SEC
			•				
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.5537E+03	1.9394E+04	2 • 6240E + 04	P	1.67246+03	2.0050E+04	2.6988E+04
Ť	5.4689E+01	9.1006E+01	9.7627E+01	T	5.9960E+01	9.3483E+01	1.0050E+02
RHD	1.4721E+01	9.0772E+01	1.0739E+02	RHO	1.4085E+01	8.8412E+01	1.0377E+02
н	3.3267E+02	6.1443E+02	7.1402E+02	н	3.5934E+02	6.6164E+02	7.6750E+02
Ά	8.9403E+00	1.2314E+01	1.3225E+01	A	9.7275E+00	1.2703E+01	1.3684E+01
S	1.68806+00	1.8358E+00	1.9064E+00	\$	1.7252E+00	1.8893E+00	1.9535E+00
ι.	1.92985+00	2.3477E+00	2.5027E+00	Z	1.9803E+00	2.4259E+00	2.5879E+00
GAME	7.5733E-01	7.0971E-01	7 • 158 3E -01	GAME	7.9692E-01	7.1156E-01	7.2002E-01
U	2.9466E+01	4.7892E+00	4-6802E+00	U	3.0521E+01	4-8702E+00	4.8138E+00
SPECIE	s	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	*****
E-	4.8182E-01	5.74C5E-01	6.0044E-01	E-	4.9502E-01	5.8779E-01	6.1358E-01
Ā	3.6766E-02	1.9212E-03	1.27d5E-03	Ā	1.2642E-02	1.4678E-03	9.2131E-04
Ä+	4.810GE-01	2.7411E-01	1.96566-01	Ã+	4.8965E-J1	2.3392E-01	1.5821E-01
A++	4.0819E-04	1.4980E-01	2.0129E-01	A++	2.6890E-03	1.7661E-01	2.2650E-01
A+++	9.9050E-12	1.1295E-04	4.2828E-04	A+++	9.8074E-10	2.1572E-04	7.9277E-04
A++++	1.0387E-24	4.8712E-11					
AV			8.4615F+10	4++++		1.8216F-10	3.1159F-00
			8.4615E+10 1.7291E-18	A++++ AV	4.6381E-21 4.5547E-37	1.8216E-10 1.2012E-19	3.1159E-09 1.5199E-17
	8.6274E-43	1.3707E-20	1.7291E-18	AV	4.5547E-37	1.2012E-19	1.5199E-17
AVI I IVA					4.5547E-37 4.1119E-58	1.2012E-19 3.1859E-32	1.5199E-17 4.8319E-29
IVA	8.6274E-43 2.3644E-66	1.3707E-20 1.2865E-33	1.7291E-18 1.9033F-30	AV AVI	4.5547E-37	1.2012E-19	1.5199E-17

P1 = 2.00E+01 N/\$Q-M	, US1= 1.08E+0	4 M/SEC	PI = 1	2.00E+01 N/SQ-M	• USI= 1.15E+0	4 M/SEC
• •					•	• •
MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P 1.7328E+03	2.0325E+04	2.7285E+04	P	1.9621E+03	2.2719E+04	3.0373E+04
7 6.3011E+01	9.4707E+01	1.0198E+02	Ŧ	6.9913E+01	9.9873E+01	1.0899E+02
RHD 1.3755E+01	8.7050E+01	1.0175E+02	RHO	1.3534E+01	8.7185E+01	1.0016E+02
H 3.7258E+02	6.8569E+02	7.94516+02	н	4.2224E+02	7.7665E+02	8-9871E+02
A 9.8823E+00	1.2901E+01	1.39195+01	 A	1.01576+01	1.3698E+01	1.4929E+01
5 1.7429F+00	1.9026E+00	1.9766E+00	ŝ.	1.8020E+00	1.9784E+00	2.0574E+00
Z 1 : 1.9994£+30	2.4653E+00	2.6295E+00	ž	2.0736E+00	2.6091E+00	2.7823E+00
GAME 7.7519E-01	7.1283E-01	7.22546-01	GAME	7.1163E-01	7.2007E-01	
U 3.1040E+01	4.9121E+00	4.8696E+00	U ·	3.3009E+01	5.1321E+00	5.1479E+00
3.10402431	4.71212400	4. 66 762 700	٠.	,30,30072.01	3.13212.00	,
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SPECIES	- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
2 2 2 2	F - 1 - 1					
E- 4.9984E-01	5.9437E-01	6.1970E-01	E-	5.1774E-01	6.1672E-01	6.4058E-01
A 7.2449E-03	1.2765E-03	7.7231E-04	Α .	2.4801E-03	7.6034E-04	3.6555E-04
A+ 4.8603E-31	2.1462E-01	1.4043E-01	Δ+	4.4183E-01	1.4916E-01	8.1053E-02
A++ 6.9208E-03	1.8944F-01	2.3803E-01	Δ++	3.7950E-02	2.3250E-01	2.7448E-01
A+++ 1.0011E-08	2.9184E-04	1.0691E-03	A+++	7.5868E-37	8.5569E-04	3.5233E-03
A++++ 3.2381E-19	3.40025-10	5.9179E-09	A++++	9.7116E-16	3.3957E-09	8.3860E-08
AV 3.5084E-34	3.3688E-19	4.4423E-17	AV	1.0650E-28	1.6080E-17	4.0104E-15
AVI 5.7388E-54	1.4659E-31	2.3806E-28 `	IVA	4.6613E-46	4.7602E-29	2.0623E-25
AVII 2.0043E-81	1.0814E-48	5.5273E-44	AVII	2.97726-70	4.7340E-45	1.0001E-39
C IIIVA	7.1846E-70	2.06508-63	I I IVA	0.	6.4812E-65	1.2709E-57
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	•					•
	•	•				•
P1 ≈ 2.00E+01 N/SQ-M	. US1= 1.10E+0	4 M/SEC	. Pl = ;	2.00E+01 N/SQ-M	, US1= 1.20E+0	4 M/SEC
P1 ≈ 2.00E+01 N/SQ-M	. US1= 1.10E+0	4 M/SEC	P1 = ;	2.00E+01 N/SQ-M	, US1= 1.20E+0	4 M/SEC
	•		P1 = 7	•	•	
MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
MOVING SHOCK P 1.7956E+03	STANDING SHOCK 2.0805E+04	REFLECTED SHOCK 2.7875E+04	P	MOVING SHOCK 2.1388E+03	STANDING SHOCK 2.5136E+04	REFLECTED SHOCK 3.3632E+04
MOVING SHOCK P 1.7956E+03 T 6.5556E+01	STANDING SHOCK 2.0805E+04 9.6041E+01	REFLECTED SHOCK 2.7875E+04 1.0371E+02	Р Т	MOVING SHOCK 2.1388E+03 7.2933E+01	STANDING SHOCK 2.5136E+04 1.0441E+02	REFLECTED SHOCK 3.3632E+04 1.1572E+02
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHJ 1.3569E+01	STANDING SHOCK 2.0805E+04 9.6041E+01 8.6457E+01	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02	P T RHO	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01	STANDING SHOCK 2.5136E+04 1.0441E+02 8.8711E+01	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHD 1.3569E+01 H 3.8641E+02	STANDING SHOCK 2.0805E+04 9.6041E+01 8.6457E+01 7.1064E+02	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02	Р Т RHO H	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02	STANDING SHOCK 2.5136E+04 1.0441E+02 8.8711E+01 8.4657E+02	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RH0 1.3569E+01 H 3.8641E+02 A 9.9327E+00	STANDING SHOCK 2.0805E+04 9.6941E+01 8.6457E+01 7.1364E+02 1.3112E+01	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01	P T RHO H A	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01	STANDING SHOCK 2.5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.806TE+02 1.5740E+01
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHD 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00	STANDING SHOCK 2.0805E+04 9.6041E+01 8.6457E+01 7.1064E+02 1.3112E+01 1.9246E+00	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00	P T HO H A S	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00	STANDING SHOCK 2.5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+00	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHJ 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00	STANDING SHOCK 2.0805E+04 9.6041E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5056E+00	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00	P T RHU H A S Z	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+00	STANDING SHOCK 2-5136E+04 1.0441E+02 8-8711E+01 8-4657E+02 1-4363E+01 2-0315E+00 2-7138E+00	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00
MOVING SHOCK P 1.7956+03 T 6.5556+01 RHO 1.3569E+01 H 3.8641E+02 A 9.927E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01	STANDING SHOCK 2.0805E+04 9.6941E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5056E+00 7.1444E-01	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E-01	P T RHU H A S Z GAME	MOVING SHOCK 2.1386±+03 7.293±+01 1.3733±+01 4.5973±+02 1.0454±+01 1.8436±+00 2.1354±+00 7.0177±-01	STANDING SHOCK 2.5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+00 2.7138E+00 7.2803E-01	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00 7.4153E-01
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHJ 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00	STANDING SHOCK 2.0805E+04 9.6041E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5056E+00	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00	P T RHU H A S Z	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+00	STANDING SHOCK 2-5136E+04 1.0441E+02 8-8711E+01 8-4657E+02 1-4363E+01 2-0315E+00 2-7138E+00	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00
MOVING SHOCK P 1.7956+03 T 6.5556+01 RHO 1.3569E+01 H 3.8641E+02 A 9.927E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01	STANDING SHOCK 2.0805E+04 9.6941E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5056E+00 7.1444E-01	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E-01	P T RHU H A S Z GAME	MOVING SHOCK 2.1386±+03 7.293±+01 1.3733±+01 4.5973±+02 1.0454±+01 1.8436±+00 2.1354±+00 7.0177±-01	STANDING SHOCK 2.5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+00 2.7138E+00 7.2803E-01	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00 7.4153E-01
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHD 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01	STANDING SHOCK 2.0805E+04 9.694IE+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5056E+00 7.1444E-01 4.9643E+00	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.673ZE+00 7.2563E-01 4.9358E+00	P T RHU H A S Z GAME	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+00 7.0177E-01 3.4483E+01	STANDING SHOCK 2.51366+04 1.04416+02 8.87116+01 8.46576+02 1.43636+01 2.03156+00 2.71386+00 7.28036-01 5.34626+00	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00 7.4153E-01 5.4188E+00
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHO 1.3569E+01 H 3.8641E+02 A 9.937E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01	STANDING SHOCK 2.0805E+04 9.6941E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5056E+00 7.1444E-01 4.9643E+00	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E-01 4.9358E+00	P T RHU H A S Z GAME U	MOVING SHOCK 2.1388E+03 7.293E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+00 7.0177E-01 3.4483E+01	STANDING SHOCK 2.51366+04 1.04416+02 8.87116+01 8.46576+02 1.43636+01 2.03156+00 2.71386+00 7.28036-01 5.34626+00	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00 7.4153E-01 5.4188E+00
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHO 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01 SPECIES	STANDING SHOCK 2.0805E+04 9.694IE+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5050E+00 7.1444E-01 4.9643E+00	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E-01 4.9358E+00	P T RHU H A S Z GAME U SPECIE	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+00 7.0177E-01 3.4483E+01	STANDING SHOCK 2.5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+30 2.7138E+00 7.2803E-01 5.3462E+00 - MOLE FRACTIONS 6.3151E-01	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00 7.4153E-01 5.4188E+00
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHJ 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01 SPECIES E- 5.0461E-01 A 4.7372E-03	STANDING SHOCK 2.0805E+04 9.6041E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5050E+00 7.1444E-01 4.9643E+00 - MOLE FRACTIONS 6.0089E-01 1.1084E-03	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E+01 4.9358E+00	P T RHU H A S Z GAME U SPECIE E- A	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+00 7.0177E-01 3.4483E+01	STANDING SHOCK 2-5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+00 2.7130E+00 7.2803E-01 5.3462E+00 - MOLE FRACTIONS 6.3151E-01 4.8578E-04	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00 7.4153E-01 5.4188E+00
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHO 1.3569E+01 H 3.8641E+02 A 9.927E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01 SPECIES	STANDING SHOCK 2.0805E+04 9.694IE+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5050E+00 7.1444E-01 4.9643E+00	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E-01 4.9358E+00	P T RHU H A S Z GAME U SPECIE	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+00 7.0177E-01 3.4483E+01	STANDING SHOCK 2.5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+30 2.7138E+00 7.2803E-01 5.3462E+00 - MOLE FRACTIONS 6.3151E-01	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00 7.4153E-01 5.4188E+00
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHO 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01 SPECIES E- 5.0461E-01 A 4.7372E-03 A+ 4.7669E-01 A++ 1.3958E-02	STANDING SHOCK 2.0805E+04 9.6041E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5050E+00 7.1444E-01 4.9643E+00 - MOLE FRACTIONS 6.0089E-01 1.1084E-03 1.9552E-01 2.0209E-01	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E-01 4.9358E+00	P T RHU H A S Z GAME U SPECIE E- A A+ A+	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+00 7.0177E-01 3.4483E+01	STANDING SHOCK 2-5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+30 2.7138E+00 7.2803E-01 5.3462E+00 - MOLE FRACTIONS 6.3151E-01 4.8578E-04 1.0641E-01 2.5968E-01	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00 7.4153E-01 5.4188E+00
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHO 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01 SPECIES E- 5.0461E-01 A 4.7372E-03 A+ 4.7669E-01	STANDING SHOCK 2.0805E+04 9.6041E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5056E+00 7.1444E-01 4.9643E+00 - MOLE FRACTIONS 6.0089E-01 1.1084E-03 1.99552E-01	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E-01 4.9358E+00	P T RHU A S Z GAME U SPECIE: E- A	MOVING SHOCK 2.1388E+03 7.293E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+00 7.0177E-01 3.4483E+01	STANDING SHOCK 2.51366+04 1.04416+02 8.8711E+01 8.46576+02 1.43636+01 2.03156+00 2.71386+00 7.28036-01 5.34626+00 - MOLE FRACTIONS 6.3151E-01 4.8578E-04 1.0641E-01	REFLECTED SHOCK 3.3632E+04 1.157 2E+02 1.0066E+02 9.806 TE+02 1.574 0E+01 2.1139E+00 2.8872E+00 7.4153E-01 5.4188E+00
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHO 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01 SPECIES E- 5.0461E-01 A 4.7372E-03 A+ 4.7669E-01 A++ 1.3958E-02	STANDING SHOCK 2.0805E+04 9.6041E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5050E+00 7.1444E-01 4.9643E+00 - MOLE FRACTIONS 6.0089E-01 1.1084E-03 1.9552E-01 2.0209E-01	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E-01 4.9358E+00	P T RHU H A S Z GAME U SPECIE E- A A+ A++ A+++	MOVING SHOCK 2.1388E+03 7.2938E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+00 7.0177E-01 3.4483E+01 5.3170E-01 1.6617E-03 4.0159E-01 6.5047E-02 3.3602E-06 1.6490E-14	STANDING SHOCK 2.5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+00 7.2803E+01 5.3462E+00 - MOLE FRACTIONS 6.3151E+01 4.8578E+04 1.0641E+01 2.5968E+01 1.9098E+03 2.0068E+08	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00 7.4153E-01 5.4188E+00 6.5364E-01 1.8254E-04 4.7776E-02 2.8934E-01 9.0634E-03 7.4345E-07
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RH0 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01 SPECIES E- 5.0461E-01 A 4.7372E-03 A+ 4.7669E-01 A++ 1.3958E-02 A+++ 5.7495E-08	STANDING SHOCK 2.0805E+04 9.6941E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5050E+00 7.1444E-01 4.9643E+00 - MOLE FRACTIONS 6.0089E-01 1.1084E-03 1.9552E-01 2.0209E-01 3.9524E-04	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 7.2563E+01 4.9358E+00 6.2592E-01 6.3626E-04 1.2245E-01 2.4952E-01 1.4770E-03	P T RHU H A S Z GAME U SPECIE E- A A+ A++ A+++ A+++	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01 2.1354E+00 7.0177E-01 3.4483E+01 5.3170E-01 1.6617E-03 4.0159E-01 6.5047E-02 3.3602E-06 1.6490E-14 9.9037E-27	STANDING SHOCK 2-5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+00 7.2803E+01 5.3462E+00 - MOLE FRACTIONS 6.3151E-01 4.8578E-04 1.0641E-01 2.5968E-01 1.9098E-03 2.0068E-08	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.806TE+02 1.5740E+01 2.1139E+00 7.4153E-01 5.4188E+00 6.5364E-01 1.8254E-04 4.7774E-02 2.8934E-01 9.0634E-03 7.4345E-07 1.7109E-13
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RHO 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01 SPECIES	STANDING SHOCK 2.0805E+04 9.6941E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5056E+00 7.1444E-01 4.9643E+00 - MOLE FRACTIONS 6.0089E-01 1.1084E-03 1.9552E-01 2.0209E-01 3.9524E-04 6.4310E-10	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E-01 4.9358E+00 6.2592E-01 6.3626E-04 1.2245E-01 2.4952E-01 1.4770E-03 1.1977E-08	P T RHU H A S Z GAME U SPECIE: E- A A+ A++ A+++ AV- AVI	MOVING SHOCK 2.1388E+03 7.293E+01 1.3733E+01 4.5973E+02 1.0454E+01 1.8436E+00 2.1354E+01 3.4483E+01 5.3170E-01 1.6617E-03 4.0159E-01 6.5047E-02 3.3602E-06 1.6490E-14 9.9037E-27 3.4221E-43	STANDING SHOCK 2.5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+00 7.2803E+01 5.3462E+00 - MOLE FRACTIONS 6.3151E+01 4.8578E+04 1.0641E+01 2.5968E+01 1.998E+03 2.0068E+08 3.2954E+16 4.4756E+21	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.8067E+02 1.5740E+01 2.1139E+00 2.8872E+00 7.4153E-01 5.4188E+00 6.5364E-01 1.8254E-04 4.7774E-02 2.8934E-01 9.0634E-03 7.4345E-07 1.7109E-13 6.0013E-23
MOVING SHOCK P 1.7956E+03 T 6.5556E+01 RH0 1.3569E+01 H 3.8641E+02 A 9.9327E+00 S 1.7601E+00 Z 2.0186E+00 GAME 7.4553E-01 U 3.1580E+01 SPECIES E- 5.0461E-01 A 4.7372E-03 A+ 4.7669E-01 A++ 1.3958E-02 A++ 5.7495E-08 A+++ 8.0382E-18 AV 5.4724E-32	STANDING SHOCK 2.0805E+04 9.6041E+01 8.6457E+01 7.1364E+02 1.3112E+01 1.9246E+00 2.5050E+00 7.1444E-01 4.9643E+00 - MOLE FRACTIONS 6.0089E-01 1.1084E-03 1.9552E-01 2.0209E-01 3.9524E-04 6.4310E-10 9.7453E-10	REFLECTED SHOCK 2.7875E+04 1.0371E+02 1.0055E+02 8.2277E+02 1.4183E+01 2.0002E+00 2.6732E+00 7.2563E-01 4.9358E+00 6.2592E-01 6.3626E-04 1.2245E-01 2.4952E-01 1.4770E-03 1.1977E-08	P T RHU H A S Z GAME U SPECIE E- A A+ A++ A+++ A+++	MOVING SHOCK 2.1388E+03 7.2933E+01 1.3733E+01 4.5973E+02 1.0454E+01 2.1354E+00 7.0177E-01 3.4483E+01 5.3170E-01 1.6617E-03 4.0159E-01 6.5047E-02 3.3602E-06 1.6490E-14 9.9037E-27	STANDING SHOCK 2-5136E+04 1.0441E+02 8.8711E+01 8.4657E+02 1.4363E+01 2.0315E+00 7.2803E+01 5.3462E+00 - MOLE FRACTIONS 6.3151E-01 4.8578E-04 1.0641E-01 2.5968E-01 1.9098E-03 2.0068E-08	REFLECTED SHOCK 3.3632E+04 1.1572E+02 1.0066E+02 9.806TE+02 1.5740E+01 2.1139E+00 7.4153E-01 5.4188E+00 6.5364E-01 1.8254E-04 4.7774E-02 2.8934E-01 9.0634E-03 7.4345E-07 1.7109E-13

p, = 20 N/ m²

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	MOUTHE CHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	DEEL SCRED SUGGE
_ ' '				ρ .			REFLECTED SHOCK
. Ρ	2.3240E+03	2.7805E+04	3.731 3E+04	•	2.7183E+03	3.3623E+U4	4.5404E+04
Τ	1.7.5419E+01	1.0986E+02	1.2319E+02	T	7.9783E+01	1.2305E+02	1.3612E+02
RHD	1.3996E+01	8.9893E+01	1.0150E+02	RHO	1.4536E+01	9.1173E+01	1.0516E+02
H .	4.9886E+02	9.1973E+02	1.0674E+03	н	5.81926+02	1.0750E+03	1.2505E+03
	1.0769E+01			Ä			
Α .		1.5101E+01	1.6449E+01		1.1427E+01	1.6458E+01	1.7664E+01
S ·	1.8855E+00	2.08426+00	2.1696E+00	, S	1.9708E+00.	2.1867E+00	2-2764E+00
Ζ.	2.2016E+00	2.81556+00	2.9842E+00	2	2.3440E+00	2.9969E+00	3.1719E+00
GAME	6.9844E-01	7.3727E-01	7.3606E-01	GAME	6.9828E-01	7.3452E-01	7.2273E-01
U	3.5973E+01	5.6088E+00	5.7213E+00	U .	3.8962E+01	6.2209E+00	6.2602E+00
U	3.77732401	J.0000E.00	.54 12136 +00	• :	3.07025401	0.22095400	0.20026 +00
SPEC IE		- MOLE FRACTIONS		SPEC 1E	·	- MOLE FRACTIONS	
3. 2011		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.0012			
E-,	5.4579E-01	6.4482E-01	. 6-6490E-01	£-	5.7337E-01	6.6632E-01	6.8473E-01
				_			
A ·	1.2168E-03	2.7773E-04	8.6334E-05	A	7.1129E-04	7.1372E-05	2-6120E-05
A+ -	3.6020E-01	6.9474E-02	2.6830E-02	A+	2.78506-01	2.4437E-02	1.0362E-02
A++	9.2781E-02	2.8094E-01	2.8649E-01	Δ++	1.4737E-01	2.8562E-01	2.4038F-01
A+++	9.70028-06	4.4899E-03		A+++	4.6658E-05	2.3537E-02	6.4398E-02
				A++++			
A++++	1.3030E-13	1.3943E-07	6.0393E-06		3.0642E-12	7.0946E~06	1.0528E-04
AV	2.8384E-25	9.1032E-15	6.5582E-12	AV	5.0638E-23	8.2916E-12	1.0929E-09
IVA	4.8348E-41	6.69918-25	1.53376-20	AVI	1.0269E-37	2.0743E-20	4.0944E-17
IIVA	4.6458E-63	5.0789E-39	1.2154E-32	IJVA	2.8107E-58	1.7387E~32	1.2842E-27
AVIII	0.	1.0669E-56	5.7798E-48	AVIII	1.3212E-83	8.6745E-48	4.4721E-41
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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P1 =	2.00E+01 N/SQ-M	, US1= 1.30E+0		P1 = .	2.00E+01 N/S4-M	, US1= 1.40E+0	M- M/SEC
Pl =	2.00E+01 N/SQ-M	, US1= 1.30E+0		P1 = ,	2.00E+01 N/Su-M	. US1= 1.40E+0	4 M/SEC
PL =	2.00E+01 N/SQ-M	, US1= 1.30E+0		P1 = .	2.00E+01 N/SU-M	. US1= 1-40E+0	94 H/SEC
P1 =			4 M/SEC				
Pl =	MOVING SHOCK	STANDING SHOCK	4 M/SEC		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P1 =	MOVING SHOCK 2.5173E+03	STANDING SHOCK 3.0637E+04	REFLECTED SHOCK 4.1265E+04	P	MOVING SHOCK 2.9268E+03	STANDING SHOCK 3.6762E+04	
P1 =	MOVING SHOCK	STANDING SHOCK	4 M/SEC		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P T	MDVING SHOCK 2.5173E+03 7.7656E+01	STANDING SHOCK 3.0637E+04 1.1630E+02	REFLECTED SHOCK 4.1265E+04 1.3012E+02	P T	MOVING SHOCK 2.9268E+03 8.1885E+01	STANDING SHOCK 3.6762E+04 1.2923E+02	REFLECTED SHOCK 4.9688E+04 1.4175E+02
P T RHO	MDV ING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01	REFLECTED SHDCK 4.1265E+04 1.3012E+02 1.0303E+02	P T RHO	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02
P T RHO H	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02	\$TANDING \$HOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02	REFLECTED SHOCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03	P T RHO H	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03
P T RHO H	MDV ING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01	REFLECTED SHOCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01	P T RHO H	MOVING SHOCK 2-9268E+03 8-1885E+01 1-4775E+01 6-2584E+02 1-1774E+01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01
P T RHO H	MDV ING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00	\$TANDING \$HOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02	REFLECTED SHOCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03	P T RHO H	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03
P T RHO H	MDV ING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01	REFLECTED SHOCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01	P T RHO H	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00	REFLECTED SMOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00
P T RHO H A S	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+30	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00	REFLECTED SHDCK 4.1255E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00	P T RHO H A S Z	MOVING SHOCK 2.9268E+03 8.1885E+01 1.47775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00	STANDING SHOCK 3.6762E+04 1.2923E+02 9.229BE+01 1.1573E+03 1.709E+01 2.236E+00 3.3822E+00	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00
P T RHO H S S Z GAME	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+30 6.9768E-01	\$TANDING \$HOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.909BE+00 7.4124E-01	REFLECTED SHOCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0733E+00 7.2714E-01	P T RHO H A S Z GAME	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9986E-01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.082E+00 7.2633E-01	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01
P T RHO H A S	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+30	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00	REFLECTED SHDCK 4.1255E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00	P T RHO H A S Z	MOVING SHOCK 2.9268E+03 8.1885E+01 1.47775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00	STANDING SHOCK 3.6762E+04 1.2923E+02 9.229BE+01 1.1573E+03 1.709E+01 2.236E+00 3.3822E+00	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00
P T RHO H S S Z GAME	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+30 6.9768E-01	\$TANDING \$HOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.909BE+00 7.4124E-01	REFLECTED SHOCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0733E+00 7.2714E-01	P T RHO H A S Z GAME	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9986E-01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.082E+00 7.2633E-01	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01
P T RHO H S S Z GAME	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+30 6.9768E-01 3.7468E+01	\$TANDING \$HOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.909BE+00 7.4124E-01	REFLECTED SHDCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00	P T RHO H A S Z GAME	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9946E-01 4.0453E+01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.082E+00 7.2633E-01	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.3717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00
P T RHO H A S Z GAME U	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+00 2.2714E+01 3.746BE+01	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00 7.4124E-01 5.9152E+00	REFLECTED SHDCK 4.1255E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00	P T RHO H A S Z GAME U	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9986E-01 4.0453E+01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01 6.4887E+00	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00
P T RHO H A S Z GAME U SPECIE	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+00 6.9768E-01 3.7468E+01	\$TANDING \$HOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00 7.4124E-01 5.9152E+00	REFLECTED SHDCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.7514E-01	P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9946E-01 4.0453E+01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01 6.4887E+00	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00
P T RHO H A S Z GAME U	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+00 2.2714E+01 3.746BE+01	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00 7.4124E-01 5.9152E+00	REFLECTED SHDCK 4.1255E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00	P T RHO H A S Z GAME U	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9986E-01 4.0453E+01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01 6.4887E+00	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00
P T RHO H A S Z GAME U SPECIE	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.39595+02 1.1093E+01 1.9279E+00 2.2714E+00 6.9768E-01 3.7468E+01	\$TANDING \$MOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00 7.4124E-01 5.9152E+00 MOLE FRACTIONS 6.5634E-01 1.4177E-04	REFLECTED SHOCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00	P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9986E-01 4.0453E+01	STANDING SHOCK 3.6762E-04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01' 6.4887E+00 - MULE FRACTIONS 6.7556E-01 3.9326E-05	REFLECTED SMOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00
PTRHOHA SSZGAMEU	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+00 2.2714E+01 3.746BE+01	\$TANDING \$HOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.4998E+00 7.4124E-01 5.9152E+00 - MOLE FRACTIONS 6.5634E-01 1.4177E-04 4.1536E-02	REFLECTED SHDCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00 	P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 2-9268E+03 8-1885E+01 1-4775E+01 6-2584E+02 1-1774E+01 2-0144E+00 2-4191E+00 6-9986E-01 4-0453E+01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01 6.4887E+00 - MULE FRACTIONS 6.7556E-01 3.9326E-05 1.5268E-02	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00 6.9427E-01 1.5832E-05 6.8895E-03
P T RHO H A S Z GAME U SPEC IE E- A+ A+	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+00 6.9768E-01 3.746BE+01	\$TANDING \$HOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00 7.4124E-01 5.9152E+00	REFLECTED SHDCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00	P T RHO H A S Z GAME U SPECIE E- A A+ A++	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9986E-01 4.0453E+01	\$TANDING \$HOCK 3.6762E+04 1.2923E+02 9.229BE+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01 6.4887E+00 - MULE FRACTIONS 6.7556E-01 3.9326E-05 1.5268E-02 2.6715E-01	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00
P T RHO H A S S Z GAME U SPEC IE E- A+ A+ A+ A+++	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+00 6.9768E-01 3.7468E+01 5.5973E-01 9.2440E-04 3.1897E-01 1.2035E-01 2.2604E-01	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00 7.4124E-01 5.9152E+00 - MOLE FRACTIONS 6.5634E-01 1.4177E-04 4.1536E-02 2.9115E-01 1.0830E-02	REFLECTED SHOCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00 6.7514E-01 4.4764E-05 1.6000E-02 2.6732E-01 4.1459E-02	P T RHO H A S Z GAME U SPECIE: E- A A+ A+ A++	MOVING SHOCK 2-9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9986E-01 4.0453E+01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01' 6.4887E+00 - MULE FRACTIONS 6.7556E-01 3.9326E-05 1.5268E-02 2.6715E-01 4.1958E-02 4.1958E-02	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00 6.9427E-01 1.5832E-05 6.8895E-03 2.0937E-01 8.9171E-02
P T RHO H A S Z GAME U SPECIE E - A A A + A + + + A + + + + + + + + + +	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+30 6.9768E+01 3.7468E+01	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.4099E+00 7.4124E-01 5.9152E+00 - MOLE FRACTIONS 6.5634E-01 1.4177E-04 4.1536E-02 2.9115E-01 1.0830E-02 1.0850E-02	REFLECTED SHDCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00 6.7514E-01 4.4764E-05 1.6000E-02 2.6732E-01 4.1459E-02 3.1379E-05	P T RHO H A S Z GAME U SPECIE: E- A A+ A++ A+++	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9986E-01 4.0453E+01 5.8662E-01 5.4617E-04 2.3912E-01 1.7362E-01 8.9673E-05 1.1895E-11	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01 6.4887E+00 - MULE FRACTIONS 6.7556E-01 3.9326E-05 1.5268E-02 2.6715E-01 4.1958E-02 3.1062E-05	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.3717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00
P T RHO H A S S Z GAME U SPEC IE E- A+ A+ A+ A+++	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+00 6.9768E-01 3.7468E+01 5.5973E-01 9.2440E-04 3.1897E-01 1.2035E-01 2.2604E-01	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00 7.4124E-01 5.9152E+00 - MOLE FRACTIONS 6.5634E-01 1.4177E-04 4.1536E-02 2.9115E-01 1.0830E-02	REFLECTED SHOCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00 6.7514E-01 4.4764E-05 1.6000E-02 2.6732E-01 4.1459E-02	P T RHO H A S Z GAME U SPECIE: E- A A+ A+ A++	MOVING SHOCK 2-9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9986E-01 4.0453E+01	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01' 6.4887E+00 - MULE FRACTIONS 6.7556E-01 3.9326E-05 1.5268E-02 2.6715E-01 4.1958E-02 4.1958E-02	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00 6.9427E-01 1.5832E-05 6.8895E-03 2.0937E-01 8.9171E-02
P T RHO H A S Z GAME U SPEC IE E-A, A++ A+++ A+++	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.19279E+00 2.2714E+00 6.9768E-01 3.746BE+01 ES	\$TANDING \$HOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00 7.4124E-01 5.9152E+00 - MOLE FRACTIONS 6.5634E-01 1.4177E-04 4.1536E-02 2.9115E-01 1.0830E-02 1.0830E-06 3.1339E-10	REFLECTED SHDCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00 6.7514E-01 4.4764E-05 1.6000E-02 2.6732E-01 4.1459E-02 3.1379E-05 1.2166E-10	P T RHO H A S Z GAME U SPECIE: E-A A ++++ A++++ AV	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.996E-01 4.0453E+01 5.8662E-01 5.4617E-04 2.3912E-01 1.7362E-01 8.9673E-05 1.1895E-11 4.8647E-22	STANDING SHOCK 3.6762E-04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01 6.4887E+00 - MULE FRACTIONS 6.7556E-01 3.9326E-05 1.5268E-02 2.6715E-01 4.1958E-02 3.1062E-05 1.1392E-10	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00 6.9427E-01 1.5832E-05 6.8895E-03 2.0937E-01 8.9171E-02 2.8161E-04 6.7997E-09
P T RHO H A S Z GAME U SPECIE E-A A A A A A A A A A A A A A A A A A	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 2.2714E+00 2.2714E+00 3.746BE+01 3.746BE+01 9.2440E-04 3.1897E-01 1.2035E-01 2.2604E-05 7.0206E-13 4.4512E-24 2.7912E-39	STANDING SHOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.0530E+01 2.15838E+01 2.1360E+00 2.9098E+00 7.4124E-01 5.9152E+00 - MOLE FRACTIONS 6.5634E-01 1.4177E-04 4.1536E-02 2.9115E-01 1.0850E-02 1.0850E-06 3.1339E-13 1.4201E-22	REFLECTED SHDCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00 6.7514E-01 4.4764E-05 1.6000E-02 2.6732E-01 4.1459E-02 3.1379E-05 1.2166E-10 1.3551E-18	P T RHO H A S Z GAME U SPECIE: E- A A+ A++ A+++ AVI	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.9946E-01 4.0453E+01 5.8662E-01 5.4617E-04 2.3912E-01 1.7362E-01 8.9673E-05 1.1895E-11 4.8647E-22 3.0502E-36	STANDING SHOCK 3.6762E+04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01 6.4887E+00 - MULE FRACTIONS 6.7556E-01 3.9326E-05 1.5268E-02 2.6715E-01 4.1958E-02 3.1062E-05 1.1392E-10 1.1584E-10	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00 6.9427E-01 1.5832E-05 6.8895E-03 2.0937E-01 8.9171E-02 2.8161E-04 6.7997E-09 7.2276E-16
P T RHO H A S Z GAME U SPEC IE E-A, A++ A+++ A+++	MDVING SHOCK 2.5173E+03 7.7656E+01 1.4272E+01 5.3959E+02 1.1093E+01 1.9279E+00 2.2714E+30 6.9768E+01 3.7468E+01 5.5973E-01 9.2440E-04 1.1897E-01 1.2035E-01 2.2604E-05 7.0206E-13 4.4512E-24 2.7912E-39 1.5572E-60	\$TANDING \$HOCK 3.0637E+04 1.1630E+02 9.0530E+01 9.9587E+02 1.5838E+01 2.1360E+00 2.9098E+00 7.4124E-01 5.9152E+00 - MOLE FRACTIONS 6.5634E-01 1.4177E-04 4.1536E-02 2.9115E-01 1.0830E-02 1.0830E-06 3.1339E-10	REFLECTED SHDCK 4.1265E+04 1.3012E+02 1.0303E+02 1.1576E+03 1.7066E+01 2.2241E+00 3.0783E+00 7.2714E-01 6.0099E+00 6.7514E-01 4.4764E-05 1.6000E-02 2.6732E-01 4.1459E-02 3.1379E-05 1.2166E-10	P T RHO H A S Z GAME U SPECIE: E-A A ++++ A++++ AV	MOVING SHOCK 2.9268E+03 8.1885E+01 1.4775E+01 6.2584E+02 1.1774E+01 2.0144E+00 2.4191E+00 6.996E-01 4.0453E+01 5.8662E-01 5.4617E-04 2.3912E-01 1.7362E-01 8.9673E-05 1.1895E-11 4.8647E-22	STANDING SHOCK 3.6762E-04 1.2923E+02 9.2298E+01 1.1573E+03 1.7009E+01 2.2366E+00 3.0822E+00 7.2633E-01 6.4887E+00 - MULE FRACTIONS 6.7556E-01 3.9326E-05 1.5268E-02 2.6715E-01 4.1958E-02 3.1062E-05 1.1392E-10	REFLECTED SHOCK 4.9688E+04 1.4175E+02 1.0717E+02 1.3463E+03 1.8295E+01 2.3298E+00 3.2709E+00 7.2191E-01 6.4870E+00 6.9427E-01 1.5832E-05 6.8895E-03 2.0937E-01 8.9171E-02 2.8161E-04 6.7997E-09

Ρ1 ≖	2.00E+01 N/SQ-M	. US1= 1.45E+0	04 M/SEC	P1 = 2	.00E+01 N/SQ-M	. US1= 1.55E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MUVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.1427E+03	4.0028E+04	5.4075E+04	Р	3.5956E+03	4.6687E+04	6.2965E+04
Ţ	8.4032E+01	1.3476E+02	1.4712E+02	T	8.8769E+01	1.4474E+02	1.5818E+02
RHO	1.4981E+01	9.3691E+01	1.0903E+02	RHO	1.5254E+01	9.6163E+01	1.1128E+02
н .	6.7135E+02	1.2426E+03	1.4449E+03	н 11	7.6713E+02	1.4219E+03	1.6522E+03
Α .	1.2138E+01	1.7563E+01	1.8943E+01	A	1.2943E+01	1.8724E+01	2.0342E+01
S	2.0585E+00	2.2865E+00	2.3824E+00	S	2.1478E+00	2.3860E+00	2.4880E+00
Z	12.4964E+00	3.1702E+00	3.3711E+00	Z	2.6553E+00	3.3542E+00	3.5770E+00
GAME	7.0232E-01	7.2203E-01	7.2353E-01	GÁME	7.10652-01	7-2214E-01	7.3134E-01
U	4.1940F+01	6.7169E+00	6.6979E+00	U	4.4890E+01	7.1321E+00	7.1312E+00
SPECIE	s	- MOLE FRACTIONS		SPECIES	***************************************	- MOLE FRACTIONS	
E-	5.99426-01	6.8457E-01	7.0336E-01	£-	6.2340E-01	7.0187E-01	7.2044E-01
Α .	4.1358E-04	2.3519E-05	9.8013E-06	A	2.1578E-04	9.3811E-06	3-4763E-06
A +	2.0108E-01	1.0093E-02	4.6516E-03	A+	1.2992E-31	4.7641E-03	2.00626-03
A++	1.9892E-01	2.4157E-01	1.7785E-01	A++	2.4591E-01	1.8351E-01	1.1686E-01
A+++	1.6560E-04	6.3645E-02	1.1349E-01	A+++	5.5236E-04	1.0932E-01	1.58076-01
A++++	4.3436E-11	9.7446E-05	6.3913E-04	A+++	5.9254E-10	5.3276E-04	2.6222E-03
AV	4.2453E-21	9.0400E-10	3.2435E-08	AV	3.50115-19	2.1787E-08	5.3145E-07
AVI	7.7336E-35	2.8790E-17	8.6467E-15	IVA	5.7947E-32	4.3345E-15	7.8748E-13
AVII	4.45725-54	7.0443E-28	3-6062E-24	IIVA	6.7698E-50	1.1903E-24	3.0832E-21
IIIVA	8.4316E-78	1.8008E-41	2.61 03E-36	IIIVA	4.2240E-72	5.1811E-37	3.1009E-32

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P1 ≈	2.00E+01 N/SQ-M	. US1= 1.50E+0	04 M/SEC	P1 = 2.	M-02/N 10+300.	, US1= 1.60E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MUNING SHUCK	STANDING SHOCK	REFLECTED SHOCK
ρ	3.3657E+03	4.3359E+04	5.8526E+04	Р	3.8320E+03	4.9928E+04	6.7300E+04
Ť	8.6297E+01	1.3986E+02	1.5254E+02	Ţ	9.1579E+01	1.4953E+02	1.6415E+02
RHD	1.5144E+01						
н		9.50725+01	1.104AF+02	RHD			1-1144E+02
		9.5072E+01	1.1946E+02	RHO,	1.52976+01	9.6842E+01	1.1144E+02 1.7610E+03
	7.1845E+02	1.3309E+03	1.5470E+03	н '	1.5297E+01 8.1737E+02	9.6842E+01 1.5155E+03	1.7610E+03
4	7.1845E+02 1.2524E+01	1.3309E+03 1.8133E+01	1.5470E+03 1.9624E+01	H .	1.5297E+01 8.1737E+02 1.3406E+01	9.6842E+01 1.5155E+03 1.9331E+01	1.7610E+03 2.1086E+01
A S	7.1845E+02 1.2524E+01 2.103JE+00	1.3309E+03 1.8133E+01 2.3361E+00	1.5470E+03 1.9624E+01 2.4351E+00	H A S'	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00	9.6842E+01 1.5155E+03 1.9331E+01 2.4353E+00	1.7610E+03 2.1086E+01 2.5406E+00
4	7.1845E+02 1.2524E+01 2.1030F+00 2.5753E+00	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00	1.5470E+03 1.9624E+01 2.4351E+00 3.4736E+00	H .	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00 2.7354E+00	9.6842E+01 1.5155E+03 1.9331E+01 2.4353E+00 3.4479E+00	1.7610E+03 2.1086E+01 2.5406E+00
A S Z	7.1845E+02 1.2524E+01 2.103JE+00	1.3309E+03 1.8133E+01 2.3361E+00	1.5470E+03 1.9624E+01 2.4351E+00	H A S Z	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00	9.6842E+01 1.5155E+03 1.9331E+01 2.4353E+00	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01
A S Z GAME U	7.1845E+02 1.2524E+01 2.1030F+00 2.5753E+00 7.0581E-01 4.3420E+01	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21C0E-01 6.9271E+00	1.5470E+03 1.9624E+01 2.4351E+00 3.4736E+00 7.2643E-01 6.9127E+00	H A S Z Z GAME	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00 2.7354E+00 7.1740E-01	9-6842E+01 1.5155E+03 1.9351E+01 2.4353E+00 3.4479E+00 7.2478E-01 7.3364E+00	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00
A S Z	7.1845E+02 1.2524E+01 2.1030F+00 2.5753E+00 7.0581E-01 4.3420E+01	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21G0E-01	1.5470E+03 1.9624E+01 2.4351E+00 3.4736E+00 7.2643E-01 6.9127E+00	H A S Z	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00 2.7354E+00 7.1740E-01	9.6842E+01 1.5155E+03 1.933IE+01 2.4353E+00 3.4479E+00 7.2478E-01	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00
A S Z GAME U	7.1845E+02 1.2524E+01 2.1030E+00 2.5753E+00 7.05d1E-01 4.3420E+01	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21G0E-01 6.9271E+00	1.5470E+03 1.9624E+01 2.4351E+00 3.4736E+00 7.2643E-01 6.9127E+00	H A S' Z GAME U SPECIES	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00 2.7354E+00 7.1740E-01	9-6842E+01 1.5155E+03 1.9351E+01 2.4353E+00 3.4479E+00 7.2478E-01 7.3364E+00	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00
SPECIE	7.1845E+02 1.2524E+01 2.1030E+00 2.5753E+03 7.0541E-01 4.3420E+01	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21C0E-01 6.9271E+00 - MOLE FRACTIONS	1.5470E+03 1.9624E+01 2.4351E+00 3.4736E+00 7.2643E+01 6.9127E+00	H A S Z Z GAME U	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00 2.7354E+00 7.1740E-01 4.6347E+01	9.6842E+01 1.5155E+03 1.933IE+01 2.4353E+00 3.4479E+00 7.2478E-01 7.3364E+00	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00
SPECIE	7.1845E+02 1.2524E+01 2.1030E+00 2.5753E+00 7.05d1E-01 4.3420E+01	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21G0E-01 6.9271E+00	1.5470E+03 1.9624E+01 2.4351E+00 3.4736E+00 7.2643E-01 6.9127E+00	H A S' Z GAME U SPECIES	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00 2.7354E+00 7.1740E-01 4.6347E+01	9.6842E+01 1.5155E+03 1.933IE+01 2.4353E+00 3.4479E+00 7.2478E-01 7.3364E+00 - MOLE FRACTIONS 7.0997E-01	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00
A S Z GAME U SPECIE	7.1845E+02 1.2524E+01 2.1030E+00 2.5753E+03 7.0541E-01 4.3420E+01 S	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21G0E-01 6.9271E+00 - MOLE FRACTIONS 6.9334E-01 1.4758E-05	1.5470E+03 1.9624F+01 2.4351E+00 3.4736E+00 7.2643E-01 6.9127E+00	H A S' Z GAME U SPECIES E- A	1.5297E+01 8.1737E+01 1.3406E+01 2.1928E+00 2.7354E+00 7.1740E-01 4.6347E+01	9.6842E+01 1.5155E+01 2.4353E+00 3.4479E+00 7.2478E-01 7.3364E+00 - MOLE FRACTIONS 7.0997E-01 5.9384E-06	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00
A S Z GAME U SPECIE	7.1845E+02 1.2524E+01 2.1030E+00 2.5753E+03 7.0581E-01 4.3420E+01 S	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21G0E-01 6.9271E+00 - MOLE FRACTIONS 6.9334E-01 1.475BE-05 6.9013E-03	1.5470E+03 1.9624E+01 2.4351E+00 3.4736E+00 7.2643E-01 6.9127E+00 3.4736E 7.1211E-01 5.9595E-06 3.1005E-03 1.4666E-01	H A S' Z GAME U SPECIES E- A A+	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00 2.7354E+00 7.1740E-01 4.6347E+01	9.6842E+01 1.5155E+03 1.933IE+01 2.4353E+00 3.4479E+00 7.2478E+01 7.3364E+00 - MOLE FRACTIONS 7.099TE-01 5.9384E-06 3.2819E-03	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00 7.2820E-01 1.9213E-06 1.2491E-03 8.9692E-02
SPECIE A A+ A++	7.1845E+02 1.2524E+01 2.1030E+00 2.5753E+03 7.0541E-01 4.3420E+01 S	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21C0E-01 6.9271E+00 - MOLE FRACTIONS 6.9334E-01 1.4758E-05 6.9013E-03 2.1303E-01	1.5470E+03 1.9624F+01 2.4351E+00 3.4736E+00 7.2643E-01 6.9127E+00	H A S' Z GAME U SPECIES E- A A+ A+	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00 2.7354E+00 7.1740E-01 4.6347E+01 	9.6842E+01 1.5155E+03 1.933IE+01 2.4353E+00 3.4479E+00 7.2478E+01 7.3364E+00 - MOLE FRACTIONS 7.0997E-01 5.9384E-06 3.2819E-03 1.546IE-01	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00 7.2820E-01 1.9213E-06 1.2491E-03 8.9692E-02 1.7587E-01
A S Z Z GAME U SPECIE E-A A+A++A+++	7.1845E+02 1.2524E+01 2.103UE+00 2.5753E+0J 7.05dIE-01 4.3420E+01 3.420E+01 3.0502E-04 1.6459E-01 2.231UE-01 3.0124E-04	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21C0E-01 6.9271E+00 - MOLE FRACTIONS 6.9334E-01 1.4758E-05 6.9013E-03 2.1303E-01 8.6465E-02	1.5470E+03 1.9624E+01 2.4351E+00 3.4736E+00 7.2643E-01 6.9127E+00 7.1211E-01 5.9595E-06 3.1005E-03 1.4666E-01 1.3679E-01	H A S' Z GAME U SPECIES E- A A+ A+ A++	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00 2.7354E+00 7.1740E-01 4.6347E+01 	9.6842E+01 1.5155E+03 1.9331E+01 2.4353E+00 3.4479E+00 7.2478E-01 7.3364E+00 - MOLE FRACTIONS 7.099TE-01 5.9384E-06 3.2819E-03 1.5461E-01 1.3108E-01	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00 7.3655E+00 7.2820E-01 1.9213E-06 1.2491E-03 8.9692E-02 1.7587E-01 4.9827E-03
A S Z GAME U SPECIE E-A A+++ A+++	7.1845E+02 1.2524E+01 2.1030E+00 2.5753E+03 7.0581E-01 4.3420E+01 S	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21C0E-01 6.9271E+00 - MOLE FRACTIONS 6.9334E-01 1.4758E-05 6.9013E-03 2.1303E-01 8.6465E-02 2.4409E-04	1.5470E+03 1.9624E+01 2.4351E+00 3.4736E+00 7.2643E-01 6.9127E+00 7.1211E-01 5.9595E-06 3.1005E-03 1.4666E-01 1.3679E-01 1.3288E-03	H A S' Z GAME U SPECIES E- A A+ A++ A++	1.5297E+01 8.1737E+02 1.3406E+01 2.1928E+00 2.7354E+00 1.1740E-01 4.6347E+01 	9.6842E+01 1.5155E+03 1.933IE+01 2.4353E+00 3.4479E+00 7.2478E-01 7.3364E+00 - MOLE FRACTIONS 7.0997E-01 5.9384E-06 3.2819E-03 1.5461E-01 1.3108E-01 1.0569E-03	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00 7.2820E-01 1.9213E-06 1.2491E-03 8.9692E-02 1.7587E-01 4.9827E-03 1.9995E-06 6.8982E-12
A SZ GAME U SPECIE E- A A+ A++ A+++ AV	7.1845E+02 1.2524E+01 2.1030E+00 2.5753E+03 7.0581E-01 4.3420E+01 3.0502E-04 1.6459E-01 2.2310E-01 3.0124E-04 1.5721E-10 3.6984E-20	1.3309E+03 1.8133E+01 2.3361E+00 3.2609E+00 7.21G0E-01 6.9271E+00 - MOLE FRACTIONS 6.9334E-01 1.4758E-05 6.9013E-03 2.1303E-01 8.6465E-02 2.4409E-04 4.9576E-09	1.5470E+03 1.9624E+01 2.4351E+00 3.4736E+00 7.2643E-01 6.9127E+00 7.1211E-01 5.9595E-06 3.1005E-03 1.4666E-01 1.3679E-01 1.3288E-03 1.3574E-07	H A S' Z GAME U SPECIES E- A A+ A++ A+++ A++++	1.5297E+01 81737E+02 1.3406E+01 2.1928E+00 2.7354E+00 7.1740E-01 4.6347E+01 	9.6842E+01 1.5155E+03 1.933IE+01 2.4353E+00 3.4479E+00 7.2478E-01 7.3364E+00 - MOLE FRACTIONS 7.0997E-01 5.9384E-06 3.2819E-03 1.546IE-01 1.3108E-01 1.0569E-03 8.2362E-08	1.7610E+03 2.1086E+01 2.5406E+00 3.6791E+00 7.3621E-01 7.3655E+00 7.2820E-01 1.9213E-06 1.2491E-03 8.9692E-02 1.7587E-01 4.9827E-03 1.9995E-06 6.8982E-12 8.0502E-20

p₁ = 20 N/ m²

P1 = 2.00E+01 N/SQ-M.

P1 = 2.00E+01 N/SQ-M,

US1= 1.65E+04 M/SEC

					×		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	4.0744E+03	5.2957E+04	7.1395E+04	P	4.5759E+03	5.8090E+04	7.8416E+04
ŕ	9.4917E+01	1.54546+02	1.70676+02	Ť	1.0387E+02		
				RHO		1.6517E+02	1 • 8409E +02
RHO	1.5255E+01	9.6658E+01	1.1061E+02		1.4901E+01	9.4158E+01	1.0712E+02
H :	8.6917E+02	1.6113E+03	1.8732E+03	H	9.7740E+02	1.8095E+03	2.1060E+03
A	1.3930E+01	1.9980E+01	2.1855E+01	A	1.5051E+01	2.1328E+01	2.3244E+01
S	2.2377E+30	2.4866E+00	2.5948E+00	S	2.3268E+0U	2.5884E+00	2.7024E+00
2	2.8138E+00	3.5453F+00	3.7819E+00	2	2.9566E+0D	3.7351E+00	3.9766E+00
GAME -	7.2653E-01	7.2864E-01	7.3997E-01	GAME	7.3763E-01	7.3731E-01	7.3800E-01
Ü	4.7787E+01	7.5538E+00	7.6214E+00	U .	5-0603E+01	8.0199E+00	8.1540E+00
					-		
SPECIES		- MOLE FRACTIONS		SPEC1ES		- MOLE FRACTIONS	7
0, 10 12 1	• .		•	7			
E-	6.4461E-01	7.1793E-01	7.3558E-01	€÷	6.6177E-01	7.3227E-01	7.4853E-01
A	8.6903E-05	3.5794E-06	9.7689E-07	Ā	2.2589E-05		2-32 75E-07
				Ä+		1.12928-06	
A+ -	6.8100E-02	2.1831E-03	7.3189E-04		2.5250E-02	8.7445E-04	2.3753E-04
A++	2.8509E-01	1.2592E-01	6.5532E-02	A++	3.0235E-01	7.5821E-02	3.2457E-02
A+++	2.1101E-03	1.5194E-01	1.8882E-01	A+++	1.0607E-02	1.8437E-01	1.9180E-01
A++++,	1.1994E-08	2.0254E-03	9.3198F-03	A++++	5.1474E-07	6.6565E-03	2.6894E-02
AV	5.8841E-17	2.9978E-07	7.5718E-06	AV	3.7853E-14	3.4878E-06	8.1868E-05
AVI	1.2881E-28	2.92236-13	6.2435E-11	AVI	2.2307E-24	1.6138E-11	3.4443E-09
AVII.	4.9344E-45	6.3964E-22	2.2272E-18	IIVA	7.1028E-39	2.6296E-19	9.7196E-16
LIIVA	1.7411E-65	3.1763E-33	3.0049E-28	IIIVA	4.1760E-57	1.3756E-29	1.4892E-24
					•		
	•						,
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. ,				01 - 1) 005.01 N/SO-W	WS1- 1 905-0	we week
P1 = 2	2.00E+01 N/SQ-M	, US1= 1.70E+0	04 M/SEC	P1 = 2	2.00E+01 N/SQ-M	, US1= 1.80E+0	4 M/SEC
P1 = 2	2.00E+01 N/SQ-M	, US1= 1.70E+0	4 M/SEC	P1 = 2	2.00E+01 N/SQ-M	, USI= 1.80E+0	14 M/SEC .
P1 = 2				P1 = 7			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 4.3222E+03	STANDING SHOCK 5.5674E+04	REFLECTED SHOCK 7.5082E+04	P	MOVING SHOCK 4.8373E+03	STANDING SHOCK 6.0807E+04	REFLECTED SHOCK 8.2173E+04
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	P T	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK 8.2173E+04 1.9057E+02
P	MOVING SHOCK 4.3222E+03	STANDING SHOCK 5.5674E+04	REFLECTED SHOCK 7.5082E+04	P	MOVING SHOCK 4.8373E+03	STANDING SHOCK 6.0807E+04	REFLECTED SHOCK 8.2173E+04
P T	MOVING SHOCK 4.3222E+03 9.9005E+01	STANDING SHOCK 5.5674E+04 1.5970E+02	REFLECTED SHOCK 7-5082E+04 1-7732E+02	P T RHO H	MOVING SHOCK 4.8373E+03 1.0854E+02	STANDING SHOCK 6.0807E+04 1.7110E+02	REFLECTED SHOCK 8.2173E+04 1.9057E+02
P T RHO H	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03	P T RHO	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01	REFLECTED SHOCK 8-2173E+04 1-9057E+02 1-0592E+02
P T RHO H	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02	P T RHO H	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03	REFLECTED SHOCK 8-2173E+04 1-9057E+02 1-0592E+02 2-2271E+03
P T RHO H A	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00	P T RHO H A S	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+09	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00	REFLECTED SHOCK 8.2173E+04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00
P T RHO H A S	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00 2.8840E+00	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00	P T RHO H A S Z	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00	REFLECTED SHOCK 8.2173E+04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00
P T RHO H A S Z GAME	MOVING SHOCK 4-3222E+03 9-9005E+01 1-5117E+01 9-2251E+02 1-4599E+01 2-2822E+00 2-8840E+00 7-3625E-01	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01	P T RHD H A S Z GAME	MOVING SHOCK 4.8378+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00 7.2787E-01	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E+01	REFLECTED SHOCK 8.2173E-04 1.9057E-02 1.0592E-02 2.2271E-03 2.3874E-01 2.7548E-00 4.0710E-00 7.3466E-01
P T RHO H A S	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00 2.8840E+00	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00	P T RHO H A S Z	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00	REFLECTED SHOCK 8.2173E+04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00
P T RHO H A S Z GAME	MOVING SHOCK 4-3222E+03 9-9005E+01 1-5117E+01 9-2251E+02 1-4599E+01 2-2822E+00 2-8840E+00 7-3625E-01	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01	P T RHD H A S Z GAME	MOVING SHOCK 4.8378+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00 7.2787E-01	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E+01	REFLECTED SHOCK 8.2173E-04 1.9057E-02 1.0592E-02 2.2271E-03 2.3874E-01 2.7548E-00 4.0710E-00 7.3466E-01
P T RHO H A S Z GAME U	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4599E+01 2.2822E+00 2.8880E+00 7.3625E-01 4.9203E+01	\$TANDING \$HOCK 5.5674E+04 1.5970E+02 9.575IE+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00	P T RHD H A S Z GAME U	MOVING SHOCK 4.8378±+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00 7.2787E-01 5.2004E+01	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E-01 8.2822E+00	REFLECTED SHOCK 8.2173E+04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00 7.3466E-01 8.4097E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4599E+01 2.2822E+00 2.8880E+00 7.3625E-01 4.9203E+01	\$TANDING \$HOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00	P T RHD H A S Z GAME	MOVING SHOCK 4.8378±+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00 7.2787E-01 5.2004E+01	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E+01	REFLECTED SHOCK 8.2173E+04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00 7.3466E-01 8.4097E+00
P T RHD H A S Z GAME U	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00 2.8840E+00 7.3625E-01 4.9203E+01	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.98179E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00	P T RHO H A S Z GAME U	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00 7.2787E-01 5.2004E+01	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E-01 8.2822E+00	REFLECTED SHOCK 8.2173E-04 1.9057E-02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00 7.3466E-01 8.4097E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4599E+01 2.2822E+00 2.8880E+00 7.3625E-01 4.9203E+01	STANDING SHOCK 5.5674E+04 1.5970E+02 9.575IE+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00 - MOLE FRACTIONS	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00	P T RHD H A S Z Game U Species	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+00 3.0180E+00 7.2787E-01 5.2004E+01	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.60386E+00 3.0270E+00 7.3965E-01 8.2822E+00 - MULE FRACTIONS 7.3870E-01	REFLECTED SHOCK 8.2173E+04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00 7.3466E-01 8.4097E+00
P T RHD H A S Z GAME U	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00 2.8840E+00 7.3625E-01 4.9203E+01	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.98179E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00	P T RHO H A S L GAME U SPECIES E- A	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+00 3.0180E+00 7.2787E-01 5.200dE+01 6.6865E-01 1.1648E-05	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E-01 8.2822E+00 - MOLE FRACTIONS 7.3870E-01 5.8944E-07	REFLECTED SHOCK 8.2173E+04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00 7.3466E-01 8.4097E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4599E+01 2.2822E+00 2.8880E+00 7.3625E-01 4.9203E+01	STANDING SHOCK 5.5674E+04 1.5970E+02 9.575IE+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00 - MOLE FRACTIONS	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00	P T RHD H A S Z Game U Species	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+00 3.0180E+00 7.2787E-01 5.2004E+01	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.60386E+00 3.0270E+00 7.3965E-01 8.2822E+00 - MULE FRACTIONS 7.3870E-01	REFLECTED SHOCK 8.2173E+04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00 7.3466E-01 8.4097E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00 2.8840E+00 7.3625E-01 4.9203E+01	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00 - MOLE FRACTIONS 7.2534E-01 2.0702E-06 1.4112E-03	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00	P T RHO H A S L GAME U SPECIES E- A	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+00 3.0180E+00 7.2787E-01 5.200dE+01 6.6865E-01 1.1648E-05	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E-01 8.2822E+00 - MOLE FRACTIONS 7.3870E-01 5.8944E-07	REFLECTED SHOCK 8.2173E+04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00 7.3466E-01 8.4097E+00
P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00 2.8880E+00 7.3625E-01 4.9203E+01 6.5374E-01 4.6719E-05 4.3317E-02 2.9828E-01	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00 - MOLE FRACTIONS 7.2534E-01 2.0702E-06 1.4112E-03 9.9517E-03	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00 7.4222E-01 4.8266E-07 4.2068E-04 4.6678E-02	P T RHD H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 4.8378±+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00 7.2787E-01 5.2004E+01	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E+01 8.2822E+00 - MOLE FRACTIONS 7.3870E-01 5.8944E-07 5.2339E-04	REFLECTED SHOCK 8.2173E-04 1.9057E-02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00 7.3466E-01 8.4097E+00
P T RHO H A S Z GAME U SPECIES E-A A++++++++++++++++++++++++++++++++++	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00 2.8880E+00 7.3625E-01 4.9203E+01 6.5374E-01 4.6719E-05 4.3317E-62 2.9828E-01 4.6186E-03	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00 - MOLE FRACTIONS 7.2534E-01 2.0702E-06 1.4112E-03 9.9517E-02 1.7001E-01	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.98179E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00 7.4222E-01 4.8266E-07 4.2068E-04 4.6678E-02 1.9431E-01	P T RHD H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+00 3.0180E+00 7.2787E-01 5.200dE+01 4.648E-05 1.523E-02 2.9492E-01 2.1191E-02	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E-01 8.2822E+00 - MOLE FRACTIONS 7.3870E-01 5.8944E-07 5.2339E-04 5.5794E-02 1.9337E-01	REFLECTED SHOCK 8.2173E-04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00 7.3466E-01 8.4097E+00 7.5436E-01 1.1872E-07 1.3952E-04 2.2812E-02 1.8237E-01
P T RHO H A S Z GAME U SPECIES E-A A+A++++++++++++++++++++++++++++++++	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4519E+01 2.2822E+00 2.8840E+00 7.3625E+01 4.9203E+01 6.5374E-01 4.6719E-05 4.3317E-02 2.9828E-01 4.0186E-03 7.2855E-08	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00 - MOLE FRACTIONS 7.2534E-01 2.0702E-06 1.4112E-03 9.9517E-02 1.7001E-01 3.7162E-03	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00 7.4222E-01 4.8266E-07 4.2068E-04 4.6678E-02 1.9431E-01 1.6344E-02	P T RHD H A S Z Game U Species E- A A+ A++ A+++	MOVING SHOCK 4.8378±+03 1.0854E+02 1.4767E+01 1.0339E+03 1.544E+01 2.3687E+07 3.0180E+00 7.2787E+01 5.200dE+01 6.6865E-01 1.1648E-05 1.523E-02 2.9492E-01 2.1191E-02 2.7546E-06	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E+01 8.2822E+00 - MULE FRACTIONS 7.3870E+01 5.8944E-07 5.2339E-04 5.5794E-02 1.9337E-01 1.1604E-02	REFLECTED SHOCK 8.2173E+04 1.9057E+02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E+00 4.0710E+00 7.3466E-01 8.4097E+00 7.5436E-01 1.1872E-07 1.3952E-04 2.2812E-02 1.827E-01 4.0103E-02
P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00 2.8880E+00 7.3625E-01 4.9203E+01 6.5374E-01 4.6719E-05 4.3317E-02 2.9928E-01 4.6186E-03 7.2855E-08 1.2995E-15	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00 - MOLE FRACTIONS 7.2534E-01 2.0702E-06 1.4112E-03 9.9517E-02 1.7001E-01 3.7162E-03 1.0315E-03	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00 7.4222E-01 4.8266E-07 4.2068E-04 4.6678E-02 1.9431E-01 1.6344E-02 2.6083E-05	P T RHO H A S Z GA 4E U SPEC IES E- A A+ A++ A+++ A+++	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00 7.2787E-01 5.200dE+01 6.6865E-01 1.1648E-05 1.5223E-02 2.9492E-01 2.1191E-02 2.7546E-06 7.0259E-13	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.60386E+00 3.8270E+00 7.3965E-01 8.2822E+00 - MOLE FRACTIONS 7.3870E-01 5.8944E-07 5.2339E-04 5.5794E-02 1.9337E-01 1.1604E-02 1.157LE-05	REFLECTED SHOCK 8. 21.73 E + 04 1. 905 7E + 02 1. 059 2E + 02 2. 227 1E + 03 2. 387 4E + 01 2. 754 8E + 00 4. 071 0E + 00 7. 3466E - 01 8. 409 7E + 00 7. 346 E - 01 1. 18 72 E - 07 1. 395 2E - 04 2. 281 2E - 02 1. 82 37 E - 01 4. 01 03 E - 02 2. 15 90 E - 04
P T RHO H A S Z GAME U SPECIES E-A A+A++++A++++ AVI	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00 2.8840E+00 7.3625E-01 4.9203E+01 6.5374E-01 4.6719E-05 4.3317E-C2 2.9028E-01 4.6186E-03 7.2855E-08 1.2995E-15 1.3713E-26	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00 - MOLE FRACTIONS 7.2534E-01 2.0702E-06 1.4112E-03 9.9517E-02 1.7001E-01 3.7162E-03 1.0315E-06 2.1831E-12	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.9819E+02 1.9819E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00 7.4222E-01 4.8266E-07 4.2068E-04 4.6678E-02 1.9431E-01 1.6344E-02 2.6683E-05 4.9482E-10	P T RHO H A S Z GAME U SPECIES E- A A++ A++++ AV AVI	MOVING SHOCK 4.83738+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00 7.2787E-01 5.200dE+01 6.6865E-01 1.1648E-05 1.5223E-02 2.9492E-01 2.1191E-02 2.7546E-06 7.0259E-13 1.8800E-22	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.6386E+00 3.8270E+00 7.3965E+01 8.2822E+00 - MULE FRACTIONS 7.3870E-01 5.8944E-07 5.2339E-04 5.5794E-02 1.9337E-01 1.1604E-02 1.1571E-05 1.1833E-10	REFLECTED SHOCK 8.2173E-04 1.9057E-02 1.0592E+02 2.2271E+03 2.3874E+01 2.7548E-00 4.0710E+00 7.3466E-01 8.4097E+00 7.5436E-01 1.1872E-07 1.3952E-04 2.2812E-02 1.8237E-01 4.0103E-02 2.1590E-04 1.8395E-08
P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++	MOVING SHOCK 4.3222E+03 9.9005E+01 1.5117E+01 9.2251E+02 1.4509E+01 2.2822E+00 2.8880E+00 7.3625E-01 4.9203E+01 6.5374E-01 4.6719E-05 4.3317E-02 2.9928E-01 4.6186E-03 7.2855E-08 1.2995E-15	STANDING SHOCK 5.5674E+04 1.5970E+02 9.5751E+01 1.7093E+03 2.0646E+01 2.5374E+00 3.6409E+00 7.3312E-01 7.7794E+00 - MOLE FRACTIONS 7.2534E-01 2.0702E-06 1.4112E-03 9.9517E-02 1.7001E-01 3.7162E-03 1.0315E-03	REFLECTED SHOCK 7.5082E+04 1.7732E+02 1.0915E+02 1.9879E+03 2.2570E+01 2.6478E+00 3.8793E+00 7.4055E-01 7.8769E+00 7.4222E-01 4.8266E-07 4.2068E-04 4.6678E-02 1.9431E-01 1.6344E-02 2.6083E-05	P T RHO H A S Z GA 4E U SPEC IES E- A A+ A++ A+++ A+++	MOVING SHOCK 4.8373E+03 1.0854E+02 1.4767E+01 1.0339E+03 1.5441E+01 2.3687E+07 3.0180E+00 7.2787E-01 5.200dE+01 6.6865E-01 1.1648E-05 1.5223E-02 2.9492E-01 2.1191E-02 2.7546E-06 7.0259E-13	STANDING SHOCK 6.0807E+04 1.7110E+02 9.2865E+01 1.9127E+03 2.2007E+01 2.60386E+00 3.8270E+00 7.3965E-01 8.2822E+00 - MOLE FRACTIONS 7.3870E-01 5.8944E-07 5.2339E-04 5.5794E-02 1.9337E-01 1.1604E-02 1.157LE-05	REFLECTED SHOCK 8. 21.73 E + 04 1. 905 7E + 02 1. 059 2E + 02 2. 227 1E + 03 2. 387 4E + 01 2. 754 8E + 00 4. 071 0E + 00 7. 3466E - 01 8. 409 7E + 00 7. 346 E - 01 1. 18 72 E - 07 1. 395 2E - 04 2. 281 2E - 02 1. 82 37 E - 01 4. 01 03 E - 02 2. 15 90 E - 04

US1= 1.75E+04 M/SEC

p₁ - 50 N/ m²

P1 = 5.00E+01 N/SQ-M;

3.8007E+00 1.8182E+01

4.2550E+00 1.1149E+00 1.0030E+03 9.9609E-01 5.4910E+00

RHU H A S Z GAME

SPECIES

US1= 2.40E+03 M/SEC

3.5866E+02 3.1359E+01 1.1144E+01 3.8608E+01 4.8424E+00

1.0263E+00 7.2855E-01 2.8344E+00

MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 6.9081E+01 1.3098E+02 3.5866E+02 1.8175E+01 2.3353E+01 3.1359E+01

2.3353E+01 5.6026E+00 2.3641E+01 4.6458E+00 1.1157E+00 1.0011E+00 9.2323E-01 3.7115E+00

MOLE FRACTIONS

P1 = 5.00E+01 N/SQ-M. US1= 2.00E+03 M/SEC

3.7155E+00 1.2892E+01 3.5905E+00 1.0901E+00 1.0000E+00

9.9999E-01 4.5391E+00

P

RHO H

GAME

SPECIES

MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 4.7899E+01 8.4652E+01 2.5825E+02 1.6278E+01 2.7128E+01

1.6278E+01 5.2004E+00 1.6279E+01 4.0335E+00 1.0967E+00

9.9945E-01 3.2315E+00

----- MULE FRACTIONS -----

2.7128E+01 9.4658E+00 2.8670E+01 4.7225E+00 1.1087E+00 1.0057E+00 8.1744E-01 2.9446E+00

E- A A+ A++ A++ A++ AVI AVII AVIII	2.0843E-08 1.0000E+00 2.0843E-08 7.2471E-32 3.7177E-71 0. 0.	2.9212E-06 9.9999E-01 2.9212E-06 3.9281E-25 8.3316E-56 0. 0.	5.6588E-03 9.8868E-01 5.6588E-03 3.4917E-13 4.2118E-32 2.3304E-62 0. 0.	E- A A++ A+++ AV AVI AVII AVIII	2.6341E-05 9.9995E-01 2.6341E-05 1.4414E-21 9.0622E-50 3. 0.	1.0767E-03 9.9785E-01 1.0767E-03 7.8301E-16 4.5597E-38 7.5797E-73 0. 0.	2.5660E-02 9.4868E-01 2.5660E-02 7.5922E-11 5.8975E-27 1.3792E-52 1.0478E-86 0.
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							•
						. :	
						•	
P1 = 5	5.00E+01 N/SJ-M,	US1= 2.20E+03	M/SEC	P1 = 5	-00E+01 N/SQ-M	US1= 2.60E+03	M/SEC ·
	MOVING SHOCK S	STANDING SHOCK R	EFLECTED SHOCK		MOVENG SHOCK	STANDING SHOCK	REFLECTED SMOCK
P	5.8003E+01	1.0524E+02	3.0707E+02	P	8.12326+01	1.7093E+02	4.1553E+02 ·
Ţ	1.5416E+01	1.9664E+01	2.9539E+01	Ţ	2.11195+01	2.6954E+01	3.2871F+01
RHO	3.7625E+00	5.3513E+00	1.0246E+01	· RHO	3.84525+00	6.3010E+00	1.2148E+01
H	1.5416E+01 3.9259E+00	1.9686E+01 4.4114E+00	3.3510E+01	H A	2.1200E+01 4.5248E+00	2.8701E+01	4.4082E+01
ŝ	1.10598+00	1.1065E+00	4.7631E+00 1.1182F+00	Ŝ	1.1234E+00	4.6741E+00 1.1246E+00	4.9404E+00 1.1396E+00
ž	1.3030E+30	1.0001E+30	1.0145E+00	;	1.3003E+00	1.1246E+00	1.0406E+00
GAME	9.9976E-01	9.8956E-01	7.5704E-01	GAME	9.69175-01	8.0536E-01	7.1357E-01
Ü	5.0154E+00	3.5137E+00	2.9036E+00	Ü	5.9732E+30	3.62998+00	2.7597E+00
SPECIES		MOLE FRACTIONS -		SPEC IES		- MOLE FRACTIONS	
E-	1.1652E-06	8.3900E-05	1.4314E-02	E-	3.0381E-04	6.4105E-03	3.8978E-02
Ā	1.0000E+00	9.9983E-01	9.7137E-01	Ä	9.9939E-01	9.8718E-01	9.2204E-01
A+	1.1652E-06	8.3900E-05	. 1.4314E-02	Ã÷	3.0381E-04	6.4105E-03	3.8978E-02
A++	3.4628E-26	1.18086-19	9.2227E-12	A++	. 7.9898E-18	4.044E-13	3.5627E-10
A+++	1.3105E-60	2.98256-46	5.4978E-29	A+++	2.4396E-42	4.7490E-32	1.7649E-25
A++++	·).	0.	1.8269E-56	A++++	3.3178E-81	3.7143E-62	6.8034E-50
AV	0.	0.	0.	AV	o.	0.	1.5720E-82
AVI	0.	0.	0.	AVI).	0.	0.
11VA 11IVA	0.	0.	0.	1 I VA	0.	0.	0.
ATTI	0.	0.	0.	IIIVA	0.	0.	0.

P 9.471 T 2.399 RHU 3.939 H 2.449 A 4.624 S 1.131 Z 1.001 GAME 8.897	SHUCK STANDING SHOCK 6E+01 2-2501E+02 17E+01 2-9686E+01 17E+00 7-4462E+00 19E+01 3-4597E+01 19E+00 1.0180E+00 19E+00 1.0180E+00 19E+00 7-4331E-01 18E+00 3-4159E+00	REFLECTED SHOCK 4.8494E+02 3.4235E+01 1.3400E+01 5.0123E+01 5.0509E+00 1.1495E+00 1.0571E+00 7.0493E-01 2.6942E+00	P T RHO H A S Z GAME U	MOVING SHOCK 1.2842E+02 2.8369E+01 4.4645E+01 4.654E+01 4.654E+01 1.1475E+00 1.0139E+00 7.5314E-01 7.7075E+00	STANDING SHOCK 3.9260E+02 3.3710E+01 1.104TE+01 4.8762E+01 5.0054E+00 1.1542E+00 7.0501E-01 3.1010E+00	REFLECTED SHOCK 7.2041E+02 3.7033E+01 1.7670E+01 6.5403E+01 5.3282E+00 1.1741E+00 1.1009E+00 6.9635E-01 2.6149E+00
SPECIES	MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
A 9.98 A+ 1.85 A++ 4.02 A+++ 1.55	079E-03	5.4023E-02 8.9195E-01 5.4023E-02 1.2448E-09 2.8790E-24 1.2023E-47 4.7051E-79 0.	E- A A++ A+++ A+++ AV AVI AVII AVII	1.3757E-02 9.7249E-01 1.3757E-02 4.4258E-12 5.8135E-30 2.0522E-58 3. 0.	5.1421E-02 8.9716E-01 5.1421E-02 9.0700E-10 1.2738E-24 2.3514E-48 3.4599E-80 0.	9.1659E-02 8.1668E-01 9.1658E-02 1.0972E-08 4.1196E-22 1.4508E-43 2.3901E-72 0.
P1 = 5.00E+01	. N/S2-M, US1= 3.00F+0	3 M/SEC	P1 = 5	.00E+01 N/SQ-M	• US1= 3.40E+0	D3 M/SEC
MOVINO P 1.104 T 2.644 RHO 4.145 H 2.815 A 4.622 S 1.135 Z 1.006 GAME 8.032	3 SHOCK STANDING SHUCK 43E+02 2.9719E+02 48E+01 3.1846E+01 92E+00 9.0233E+00 64E+01 4.1282E+01 99E+00 4.8603E+00 945E+00 1.0342E+00 1.0342E+00	• •	P T RHD	MOVING SHOCK 1.4796E+02 2.9891E+01 4.8343E+00 3.6450E+01 4.7167E+00 1.1560E+00	* US1= 3.40E+C STANDING SHOCK 5.0844E+02 3.5343E+01 1.3362E+01 5.6746E+01 5.1570E+00 1.1657E+00 1.0766E+00 6.9892E-01 3.0194E+00	•
MOVINO P 1.104 T 2.644 RHO 4.145 H 2.815 A 4.622 S 1.135 Z 1.006 GAME 8.032	3 SHOCK STANDING SHUCK 43E+02 2-9719E+02 8EE+01 3-1846E+01 82E+00 9-0233E+00 8EE+01 4-1282E+01 9EE+00 4-8603E+00 94EE+00 1-1436E+00 93E+00 1-0342E+00 97E-01 7-1722E-01	REFLECTED SHOCK 5.8487E+02 3.5628E+01 1.5238E+01 5.7275F+01 5.1816E+00 1.1613E+00 1.0773E+00 6.9952E-01 2.6563E+00	P T RHD H A S Z GAME U	MOVING SHOCK 1.4796E+02 2.9891E+01 4.8843E+00 3.6450E+01 4.7167E+00 1.1560E+00 1.0240E+00 7.2688E-01 8.3668E+00	STANDING SHOCK 5.0844E+02 3.5343E+01 1.3362E+01 5.6746E+01 5.1570E+00 1.1657E+00 1.0766E+00 6.9892E-01	REFLECTED SHOCK 8.8648E+02 3.8387E+01 2.0494E+01 7.4223E+01 5.4817E+00 1.1875E+00 1.1268E+00 6.9468E+01 2.5884E+00

ING SHOCK 6901E+02 1162E+01 2362E+00 1001E+01 7948E+00 1650E+00 0258E+00 1229E-01 0336E+00	STANDING SHOCK 6.4909€+02 3.6847E+01 1.5995E+01 6.5314E+01 5.3135E+00 1.1782E+00 1.1013E+00 6.9573E-01 2.9439E+00	REFLECTED SHOCK 1.0841E+03 3.9703E+01 2.3643E+01 8.3705E+01 5.6410E+00 1.2019E+00 1.1549E+00 6.9396E+01 2.5741E+00	P T RHO H A S Z GAME U	MOVING SHOCK 2.1516ē+02 3.3253E+01 6.0840E+00 5.0863E+01 4.9686E+01 1.1845E+00 1.0035E+00 6.9804E-01	STANDING SHOCK 1.0037E+03 3.9572E+01 2.1935E+01 8.3938E+01 5.6331E+00 1.2059E+00 1.1563E+00 6.9349E-01	1.5743E+03 4.2223E+01 3.0640E+01 1.0442E+02 5.9724E+00 1.2332E+00 1.2169E+00 6.9421E-01
1162E+01 2362E+03 1001E+01 7948E+00 1650E+00 0358E+00 1229E-31	3.6847E+01 1.5995E+01 6.5314E+01 5.3135E+00 1.1782E+00 1.1013E+00 6.9573E-01	3.9703E+01 2.3643E+01 8.3705E+01 5.6410E+00 1.2019E+00 1.1549E+00 6.9396E-01	T RHD H A S Z Game	3.3253E+01 6.0840E+00 5.0863E+01 4.9686E+33 1.1845E+00 1.0835E+03 6.9804E-01	3.9572E+01 2.1935E+01 8.3938E+01 5.6331E+00 1.2059E+00 1.1563E+00 6.9349E-01	4.223E+01 3.0640E+01 1.0442E+02 5.9724E+00 1.2332E+00 1.2169E+00 6.9421E-01
2362E+03 1001E+01 7948E+00 1650E+00 0358E+00 1229E-31	1.5995E+01 6.5314E+01 5.3135E+00 1.1782E+00 1.1013E+00 6.9573E-01	2.3643E+01 8.3705E+01 5.6410E+00 1.2019E+00 1.1549E+00 6.9396E-01	H A S Z Game	6.0840E+00 5.0863E+01 4.9686E+10 1.1845E+00 1.0635E+00 6.9804E-01	2.1935E+01 8.3938E+01 5.6331E+00 1.2059E+00 1.1563E+00 6.9349E-01	3.0640E+01 1.0442E+02 5.97724E+00 1.2332E+00 1.2169E+00 6.9421E-01
1001E+01 7948E+00 1650E+00 0358E+00 1229E-01	6.5314E+01 5.3135E+00 1.1782E+00 1.1013E+00 6.9573E-01	8.3705E+01 5.6410E+00 1.2019E+00 1.1549E+00 6.9396E-01	H A S Z Game	5.0863E+01 4.9686E+30 1.1845E+00 1.0635F+00 6.9804E-01	8.3938E+01 5.6331E+00 1.2059E+00 1.1563E+00 6.9349E-01	1.0442E+02 5.9724E+00 1.2332E+00 1.2169E+00 6.9421E-01
7948E+00 1650E+00 0358E+00 1229E-J1	5.3135E+00 1.1782E+00 1.1013E+00 6.9573E-01	5.6410E+00 1.2019E+00 1.1549E+00 6.9396E-01	A S Z GAME	4.9686E+30 1.1845E+00 1.0635F+03 6.9804E-01	5.6331E+00 1.2059E+00 1.1563E+00 6.9349E-01	5.9724E+00 1.2332E+00 1.2169E+00 6.9421E-01
1650E+00 0358E+00 1229E-01	1.1782E+00 1.1013E+00 6.9573E-01	1.2019E+00 1.1549E+00 6.9396E-01		1.1845E+00 1.0635F+00 6.9804E-01	1.2059E+00 1.1563E+00 6.9349E-01	1.2332E+00 1.2169E+00 6.9421E-01
0358E+00 1229E-01	1.1013E+00 6.9573E-01	1.1549E+00 6.9396E-01		1.0635F+00 6.9804E-01	1.1563E+00 6.9349E-01	1.2169E+00 6.9421E-01
1229E-J1	6.9573E-01	6.9396E-01		6.9804E-01	6.9349E-01	6.9421E-01
03365+00	2.9439E+00	2.5741E+00	* 1			
			U	1.03645+01	2.8604E+00	2.5698E+00
	- MOLE FRACTIONS		SPECIE	s	-, MOLE FRACTIONS	,
.4542E-02	9.2006E-02	1.3415E-01	E-	5.9743E-02	1.35176-01	1.78236-01
.3092E-01	8.1599E-01	7.3171E-01	A			6.4355E-01
.4542E-02	9.2006E-02	1.3415E-01				1.7823E-01
.2761E-10	1.0379E-08	6.1311E-08				2.4897E-07
-1185E-26	3.4175E-22	2.2276E-20	A+++			6.0103E-19
•5564E-52	4.4980E-44	2.7448E-40	A++++			1.4383E-37
.6654E-86	1.1278E-72	4.4793F-67		4.1234E-82		1.1353E-62
•	0.	0.	'AVI	· 0•	J.	0.
•	o	0.	IIVA	٫0٠	0.	0.
•	0.	0.	IIIVA	o.	ə .	0.
	.3092E-01 .4542E-02 .2761E-10 .1185E-26 .5564E-52	.4542E-02 9.2006E-02 .3092E-01 8.1599E-01 .4542E-02 9.2006E-02 .2761E-10 1.0379E-08 .1185E-26 3.4175E-22 .5564E-52 4.4980E-44 .6654E-86 1.1273E-72 . 0.	-3092E-01 8.159E-01 7.3171E-01 -4542E-02 9.2006E-02 1.3415E-01 -2761E-10 1.379E-08 6.1311E-08 -1185E-26 3.4175E-22 2.2278E-20 -5564E-52 9.4980E-44 2.7448E-40 -0654E-86 1.1274E-72 4.4793E-67 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.4542E-02 9.2006E-02 1.3415E-01 E3092E-01 8.1599E-01 7.3171E-01 A .4542E-02 9.2006E-02 1.3415E-01 A+ .2761E-10 1.3379E-08 6.1311E-08 A++ .1185E-26 3.4175E-22 2.2276E-20 A+++ .5564E-52 9.4980E-44 2.7448E-40 A+++ .6654E-86 1.1273E-72 4.4793F-67 AV . 0. 0. AVI	. 4542E-02 9.2006E-02 1.3415E-01 E- 5.9743E-02 .3092E-01 8.1599E-01 7.3171E-01 A 8.8051E-01 .4542E-02 9.2006E-02 1.3415E-01 A+ 5.9743E-02 .2761E-10 1.0379E-08 6.1311E-08 A++ 1.0307E-09 .1185E-26 3.4175E-22 2.2276E-20 A+++ 1.1326E-24 .5564E-52 9.4980E-44 2.7448E-40 A+++ 1.0724E-48 .6654E-86 1.1278E-72 4.4793E-67 AV 4.1234E-82 . 0. 0. AVI 0.	.4542E-02 9.2006E-02 1.3415E-01 E- 5.9743E-02 1.3517E-01 .3092E-01 8.1599E-01 7.3171E-01 A 8.8051E-01 7.2966E-01 .4542E-02 9.2006E-02 1.3415E-01 A+ 5.9743E-02 1.3517E-01 .2761E-10 1.0379E-08 6.1311E-08 A++ 1.0307E-09 6.0023E-08 .1185E-26 3.4175E-22 2.2276E-20 A+++ 1.1326E-24 2.0205E-20 .5564E-52 9.4980E-44 2.7448E-40 A+++ 1.0724E-48 2.1011E-40 .6654E-86 1.1273E-72 4.4793E-67 AV 4.1234E-82 2.3313E-67 . 0. 0. AVI 0. 0.

P1 = 5	5.00E+01 N/S4-M	, US1= 3.80E+0	3 M/SEC	P1 =	5.00E+01 N/S4-4	, US1= 4.20E+0	3 H/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.9143E+U2	8.1293E+02	1.3133E+03	P	2.4017E+02	1.2183E+03	1.8664E+03
Ť	3.2265E+01	3.8243E+01	4.0979E+01	T	3.4157E+01	4.0835E+01	4.3432E+01 /
RHD	5.6558E+00	1.8847E+01	2.7044E+U1	RHO	6.51575+00	2.5151E+01	3.4374E+01
н .	4.58075+01	7.4362E+01	9.37816+01	н	5.61675+01	9.3958E+01	1.1550E+02
A	4.8800E+00	5.4718E+33	5.8047F+00	A	5.0592E+00	5.7958E+00	6.1424E+00
S	1.17455+00	1.19165+00	1.21725+00	S	1.1950E+00	1.221 OE+00	1.2499E+00
Ž .	1.04905+00	1.12795+00	1.185 OE+00	· Z	1.0792E+03	1.1862E+30	1.2501E+30
GANE	7.0358E-01	6.9414E-01	6.9387E-01	GAME	6.9438E-01	6.9344E-01	6.9487E-01
u į	9.7004E+00	2.9035€+00	2.5681E+00	U	1.10236+01	2.6511E+00	2.5628E+00
SPECIES	MOLE FRACTIONS			SPECIES MOLE FRACTIONS			
e-	4.6747E-J2	1.13396-01	1.5612E-01	£-	7.33498-02	1.5700E-01	2.0008E-01
Α' -	9.0651F-01	7.7322E-01	6.8776E-01	Δ .	d.5330E-01	6.8599E-01	5.9983E-01
A+	4.6747E-02	1.1339E-01	1.5612E-01	A+	7.3349E-02	1.5700E-01	2.0008E-01
A++	3.9872E-10	2.6438E-08	1.2754E-07	A++	2.325 oE-09	1.24258-07	4.5874E-07
A+++	1.31688-25	2.9927E-21	1-2324E-19	A+++	7.2171E-24	1.1195E-19	2.5584E-18
A++++	9.8374E-51	5.8356E-42	6.6969E-39	A++++	4.1236E-47	5.5962E-39	2.2732E-36
AV .	9.0715E-83	8.5084E-70	5.6212E-65	AV	3.0802E-78	5.4971E-65	9.8159E-61
AVI	o	0.	0.	AVI).	э.	. 0.
AVII	0.	0.	0.	IIVA).	o.	0.
AVILI	0.	0.	0.	111VA	o.	0.	0.

p₁ - 50 N/ m²

P1 = 5.00E+01 N/SQ-M.

US1= 4.80E+03 M/SEC

P1 = 5.00E+01 N/SQ-M, US1= 4.40E+03 M/SEC

	MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P .	2.66435+02	1.4583E+03	2.1942E+03	p	3.2282E+02	2.0305E+03	
		4.2053E+01	4.4636E+01	Ť			2.9576E+03
· T	3.4996E+01				3.6537E+01	4.4424E+01	4.7025E+01
RHO	6.9475E+03	2.8478E+01	3.8242E+01	RHO	7.80465+00	3.5555E+01	4.6214E+01
н	6.17215+01	1.0444E+02	1.2726E+02	H	7.3586E+01	1.2700E+02	1.5248E+02
A	5.15126+00	5.9606E+00	6.3184E+00	A	5.3390E+00	6.3018E+00	6.6850E+00
S	1.2060E+00	1.2368E+00	1.2675E+00	S	1.2294E+00	1.2708E+00	1.3049E+00
Z	1.0958E+00	1.2177E+00	1.2854E+00	2 '	1.1321E+00	1.2855E+00	. 1.3609E+00
GAME	6.9192F-01	6.9380E-01	6.9580E-01	GAME	6.8916E-01	6.9539E-01	6.9831E-01
Ü	1.1677E+01	2.8619E+00	2.5804E+00	u	1.2978E+01	2.8624E+00	2.6296E+00
Ĭ.					1127/06/01		2.02 /02 / 00
SPECIES		- MOLE FRACTIONS		SPEC IES	s ·	- MOLE FRACTIONS	
	•				•		
E-	8.7434E-02	1.7879E-01	2.2205E-01	E -	l.1666E-01	2.2210E-01	2.6521E-01
Δ	8.2513E-01	6.4242E-01	5.5590E-01	Δ	7.6668E-01	5.5579E-01	4.6959E-01
A+	a.7434E-02	1.7879E-01	2.22056-01	A+	1.1666E-01	2.2210E-01	2-6520E-01
Δ++	4.7443E-09	2.3992E-07	8.1611E-07	A++	1.5955E-08	7.7670E-07	2.3551E-06
A+++	3.6288E-23	5.29116-19	1.0044E-17	A+++	5.6867E-22	8.6071E-18	1.2592E-16
A++++	8.7021E-46	1.0776E-37	3.0292E-35	A++++	1.4891E-43	2.1671E-35	3.5983E-33
		6.6303E-63	6.3137E-59	AV		3.5163E-59	
AV	4.3027E-76		1.38816-89		1.5734E-72		1.3005E-55
I,V A	j.	0.		IVA	ō.	0.	1.9646E-84
AVII	J.	o.	0.	IIVA	0.	0.	0.
IIIVA) .	э.	0.	111VA	0.	0.	`O•
					•		
P1 ≈ !	5.00E+01 N/SQ-4	, US1= 4.60E+0	 	. P1 = 9	5.00E+01 N/SQ-M	. US1= 5.00E+0	og Mysec
P1 = !	5.00E+01 N/SQ-4	, US1= 4.60E+0)3 M/SEC	. P1 = 9	5.00E+01 N/SQ-M	USI= 5.00E+0	3 M/SEC
P1 ≈ !	5.00E+01 N/SQ-4 MUVING SHOCK	, US1= 4.60E+0	3 M/SEC	. P1 = 9	5.00E+01 N/SQ-M MOVING SHOCK	USI= 5.00E+0	3 M/SEC
P1 ≈ !				P1 = 9			REFLECTED SHOCK
	MUVING SHOCK 2.9412E+02	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK 3.39076+03
p ,	MUVING SHOCK	STANDING SHOCK 1.7329E+03	REFLECTED SHOCK 2.5606E+03	₽ .	MOVING SHOCK 3.5276E+02 3.7255E+01	STANDING SHOCK 2.3602E+03 4.5581E+01	REFLECTED SHOCK 3.3907E+03 4.8217E+01
P , T RHO	MUVING SHOCK 2.9412E+02 3.5788E+01 7.3809E+00	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01	REFLECTED SHOCK 2.5606E+03 4.5838E+01	P .	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00	STANDING SHOCK 2.3602E+03 4.5581E+01 .3.9183E+01	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01
P T RHO H	MUVING SHOCK 2-9412E+02 3-5788E+01 7-3809E+00 6-7535E+01	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02	Р Т RHO	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02	REFLECTED SHDCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02
P / T RHO H /	MUVING SHOCK 2-9412E+02 3-5788E+01 7-3809E+00 6-7535E+01 5-2447E+00	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00	P T RHO H	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.988E+01 5.4347E+00	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00
P T RHO H	MUVING SHOCK 2-9412E+02 3-5788E+01 7-3809E+00 6-7535E+01 5-2447E+00 1-2175E+00	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00	P T RHO H A S	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+03	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+03	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00
P T RHO H A	MUVING SHOCK 2.94126+02 3.57886+01 7.38096+00 6.75356+01 5.24476+00 1.21756+00	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00 1.2511E+00	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00	Р Т Н Н А S Z	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+00	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+00 1.3215E+00	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00
P T RHO H A S Z GAME	MUVING SHOCK 2.9412E+02 3.578BE+01 7.3809E+00 6.7535E+01 5.2447E+00 1.2175F+00 1.1135E+00 6.9026E-01	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00 1.2511E+00 6.9448E-01	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00 6.9696E-01	P T RHO H A S Z GAME	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+03 1.1516E+00 6.8846E-01	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+03 1.3215E+00 6.9651E-01	REFLECTED SHOCK 3.39078+03 4.82176+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00 6.9986E-01
P T RHO H A	MUVING SHOCK 2.94126+02 3.57886+01 7.38096+00 6.75356+01 5.24476+00 1.21756+00	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00 1.2511E+00	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00	Р Т Н Н А S Z	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+00	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+00 1.3215E+00	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00
P T RHO H A S Z GAME	MUVING SHOCK 2-9412E+02 3-578BE+01 7-3809E+00 6-7535E+01 5-2447E+00 1-2175E+00 1-1135E+00 6-9026E-01 1-2335E+01	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00 1.2511E+00 6.9448E-01	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00 6.9696E-01 2.6025E+00	P T RHO H A S Z GAME	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+03 1.1516E+00 6.8846E-01 1.3618E+01	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+03 1.3215E+00 6.9651E-01	REFLECTED SHOCK 3.39076+03 4.82176+01 5.02026+01 1.65866+02 6.87536+00 1.32456+00 1.40086+00 6.99866-01 2.66146+00
P T RHO H A S Z GAME U	MUVING SHOCK 2.9412E+02 3.578BE+01 7.3809E+00 6.7535E+01 5.247E+00 1.2175E+00 1.1135E+00 6.9026E-01 1.2335E+01	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00 1.2535E+00 6.9448E-01 2.8521E+00	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00 6.9696E-01 2.6025E+00	P T RHO H A S Z GAME U	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+03 1.1516E+00 6.8846E-01 1.3618E+01	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+03 1.3215E+00 6.9651E-01 2.8610E+00	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00 6.9986E-01 2.6614E+00
P T RHO H A S Z GAME U SPECIES	MUVING SHOCK 2.9412E+02 3.5788E+01 7.3809E+00 6.7535E+01 5.2447E+00 1.2175F+00 1.1135E+00 6.9026E-01 1.2335E+01	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00 1.2531E+00 6.9448E-01 2.8521E+00 - MOLE FRACTIONS 2.0067E-01	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00 6.9696E-01 2.6025E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.52765+02 3.72556+01 8.22245+00 7.98885+01 5.43475+00 1.24185+03 1.15165+00 6.88465-01 1.36185+01	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+03 1.3215E+00 6.9651E-01 2.8610E+00 - MOLE FRACTIONS 2.4328E-01	REFLECTED SHOCK 3.39076+03 4.82176+01 5.02026+01 1.65866+02 6.87536+00 1.32456+00 1.40086+00 6.99866-01 2.66146+00
P T RHO H A S Z GAME U SPECIES	MUVING SHOCK 2.9412E+02 3.5788E+01 7.3809E+00 6.7535E+01 5.2447E+00 1.2175F+00 1.1135E+00 6.9026E-01 1.2335E+01	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+30 1.2535E+00 1.2511E+00 6.944BE-01 2.8521E+00 - MDLE FRACTIONS 2.0067E-01 5.9865E-01	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00 6.9696E-01 2.6025E+00	P T RHO H A S Z GAME U SPEC IES	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+03 1.1516E+00 6.8846E-01 1.3618E+01	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+00 1.3215E+00 6.9651E-01 2.8610E+00 - MOLE FRACTIONS 2.4328E-01 5.1345E-01	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00 6.9986E-01 2.6614E+00
P T RHO H A S Z GAME U SPECIES	MUVING SHOCK 2.9412E+02 3.5788E+01 7.3809E+00 6.7535E+01 5.2447E+00 1.2175F+00 1.1135E+00 6.9026E-01 1.2335E+01	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00 1.2531E+00 6.9448E-01 2.8521E+00 - MOLE FRACTIONS 2.0067E-01	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00 6.9696E-01 2.6025E+00	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 3.52765+02 3.72556+01 8.22245+00 7.98885+01 5.43475+00 1.24185+03 1.15165+00 6.88465-01 1.36185+01	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+03 1.3215E+00 6.9651E-01 2.8610E+00 - MOLE FRACTIONS 2.4328E-01	REFLECTED SHOCK 3.39076+03 4.82176+01 5.02026+01 1.65866+02 6.87536+00 1.32456+00 1.40086+00 2.66146+00
P T RHO H A S Z GAME U SPECIES	MUVING SHOCK 2.9412E+02 3.5788E+01 7.3809E+00 6.7535E+01 5.2447E+00 1.2175F+00 1.1135E+00 6.9026E-01 1.2335E+01	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+30 1.2535E+00 1.2511E+00 6.944BE-01 2.8521E+00 - MDLE FRACTIONS 2.0067E-01 5.9865E-01	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00 6.9696E-01 2.6025E+00	P T RHO H A S Z GAME U SPEC IES	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+03 1.1516E+00 6.8846E-01 1.3618E+01	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+00 1.3215E+00 6.9651E-01 2.8610E+00 - MOLE FRACTIONS 2.4328E-01 5.1345E-01	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00 6.9986E-01 2.6614E+00
P T RHO H A S Z GAME U SPECIES	MUVING SHOCK 2-9412E+02 3-5788E+01 7-3809E+00 6-7535E+01 5-2447E+00 1-1135E+00 6-9026E-01 1-2335E+01 1-0192E-01 7-9617E-01 1-0192E-01 1-0192E-01 1-0192E-01	STANDING SHOCK 1.7329E+03 4.3258E+01 3.20215+01 1.1554E+02 6.1306E+30 1.2535E+00 1.2531E+00 6.9448E-01 2.8521E+00 - MDLE FRACTIONS 2.0067E-01 5.9865E-01 2.0067E-01	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00 6.9696E-01 2.6025E+00	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 3.52765+02 3.72556+01 8.22245+00 7.98885+01 5.43475+00 1.24185+03 1.15165+00 6.88465-01 1.31635-01 7.36755-01 1.31635-01 2.70305-08	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+00 1.3215E+00 6.9651E-01 2.8610E+00 - MOLE FRACTIONS 2.4328E-01 5.1345E-01 2.4327E-01 1.3144E-06	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00 6.9986E-01 2.661*E+00
P T RHO H A S Z GAME U SPECIES	MUVING SHOCK 2.9412E+02 3.578BE+01 7.3809E+00 6.7535E+01 5.2447E+00 1.1135E+00 6.9026E-01 1.2335E+01 6.9026E-01 1.0192E-01 4.9739E-01 4.9739E-09 1.5394E-02	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+03 1.2535E+00 1.2511E+00 6.9448E-01 2.8521E+00 - MDLE FRACTIONS 2.0067E-01 2.9667E-01 2.9667E-01 4.4256E-07 2.2513E-18	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00 6.96696E-01 2.6025E+00 2.4389E-01 5.1222E-01 2.4389E-01 1.4087E-06	P T RHD H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+00 6.8846E-01 1.3618E+01 1.3163E-01 2.7030E-08 1.8853E-21	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+00 1.3215E+00 6.9651E-01 2.8610E+00 - MOLE FRACTIONS 2.4328E-01 2.4327E-01 2.4327E-01 3.3144E-06 3.0362E-17	REFLECTED SMOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.4008E+00 6.9986E-01 2.6614E+00 2.8612E-01 4.2776E-01 2.8611E-01 3.8567E-06 4.1094E-16
P T RHO H A S Z GAME U SPECIES	MUVING SHOCK 2.9412E+02 3.578BE+01 7.3809E+00 6.7535E+01 5.247E+00 1.1135E+00 6.9026E-01 1.2335E+01 1.0192E-01 7.9617E-01 1.0192E-01 3.9739E-09 1.5394E-22 1.3023E-42	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00 1.2535E+00 2.8521E+00 - MOLE FRACTIONS 2.0067E-01 5.9865E-01 2.0067E-01 4.4250E-07 2.2513E-18 1.6600E-36	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 1.3226E+00 6.96696E-01 2.6025E+00 2.4389E-01 5.1222E-01 2.4389E-01 1.4087E-06 3.6866E-17 3.5335E-34	P T RHO H A S Z GAME U SPECIES E-A A++++ A++++	MOVING SHOCK 3.5276±+02 3.7255±+01 8.2224±+00 7.9888±+01 5.4347±+00 1.2418±+00 1.3618±+01 1.3618±+01 1.3163±-01 7.3675±-01 1.3163±-01 2.7030±-08 1.8853±-21 1.3685±-42	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+00 1.3215E+00 6.9651E-01 2.8610E+00 - MOLE FRACTIONS 2.4328E-01 5.1345E-01 2.4327E-01 1.3144E-06 3.0362E-17 2.3207E-34	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00 6.9986E-01 2.6614E+00
P T RHO H A S Z GAME U SPECIES	MUVING SHOCK 2.9412E+02 3.5788E+01 7.3809E+00 6.7535E+01 5.247E+00 1.1135E+00 6.9026E-01 1.2335E+01 1.0192E-01 7.9617E-01 1.0192E-01 7.9617E-01 1.0192E-01 3.9739E-09 1.5394E-22 1.3023E-44 3.2535E-74	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00 1.2535E+00 2.8521E+00 - MDLE FRACTIONS 2.0067E-01 5.9865E-01 2.0067E-01 4.4256E-07 2.2513E-18 1.6606E-36 5.1492E-61	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.3226E+00 6.9696E-01 2.6025E+00 2.4389E-01 5.1222E-01 2.4389E-01 1.4087E-06 3.6866E-17 3.5335E-34 3.1941E-57	P T RHO H A S Z GAME U SPECIES E-A A ++++ A++++ AV	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+03 1.1516E+00 6.8846E-01 1.3618E+01 1.3163E-01 7.3675E-01 1.3163E-01 2.7030E-08 1.8853E-21 1.3685E-42 5.0416E-71	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+03 1.3215E+00 6.9651E-01 2.8610E+00 - MOLE FRACTIONS 2.4328E-01 5.1345E-01 2.4327E-01 1.3144E-06 3.0362E-17 2.3207E-34 1.4831E-57	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00 6.9986E-01 2.6614E+00 2.8612E-01 4.2776E-01 2.8611E-01 3.8567E-06 4.1094E-16 3.3631E-32 4.6459E-54
P T RHO H A S Z GAME U SPECIES	MUVING SHOCK 2.9412E+02 3.5788E+01 7.3809E+00 6.7535E+01 5.2447E+00 1.2175E+00 1.1135E+01 6.9026E-01 1.2335E+01 3.0192E-01 1.0192E-01 1.0192E-01 1.0192E-01 1.0192E-01 1.0192E-01 1.0192E-01 2.9739E-09 1.5394E-22 1.3023E-44 3.2535E-74	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+30 1.2535E+00 1.2531E+00 - MDLE FRACTIONS 2.0067E-01 5.9865E-01 2.0067E-01 4.4256E-07 2.2513E-18 1.6606E-36 5.1492E-61 0.	REFLECTED SHOCK 2.5600E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.2859E+00 6.9696E-01 2.6025E+00 2.4389E-01 5.122E-01 2.4389E-01 1.4087E-06 3.6866E-17 3.5335E-34 3.1941E-57 9.7246E-67	P T RHO H A S Z GAME U SPEC IES E- A A+ A+++ A+++ AVV	MOVING SHOCK 3.5276±+02 3.7255±+01 8.2224±+00 7.9888±+01 5.4347±+00 1.2418±+03 1.1516±+00 6.8846E-01 1.3618±+01 	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+03 1.3215E+00 6.9651E-01 2.8610E+00 - MOLE FRACTIONS 2.4328E-01 5.1345E-01 2.4327E-01 1.3144E-06 3.0362E-17 2.3207E-34 1.4831E-57 2.3902E-87	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00 6.9986E-01 2.6614E+00 2.8612E-01 4.2776E-01 2.8611E-01 3.8567E-06 4.1094E-16 3.3631E-32 4.6459E-54 3.2816E-62
P T RHO H A S Z GAME U SPECIES	MUVING SHOCK 2.9412E+02 3.5788E+01 7.3809E+00 6.7535E+01 5.247E+00 1.1135E+00 6.9026E-01 1.2335E+01 1.0192E-01 7.9617E-01 1.0192E-01 7.9617E-01 1.0192E-01 3.9739E-09 1.5394E-22 1.3023E-44 3.2535E-74	STANDING SHOCK 1.7329E+03 4.3258E+01 3.2021E+01 1.1554E+02 6.1306E+00 1.2535E+00 1.2535E+00 2.8521E+00 - MDLE FRACTIONS 2.0067E-01 5.9865E-01 2.0067E-01 4.4256E-07 2.2513E-18 1.6606E-36 5.1492E-61	REFLECTED SHOCK 2.5606E+03 4.5838E+01 4.2237E+01 1.3965E+02 6.5002E+00 1.3226E+00 6.9696E-01 2.6025E+00 2.4389E-01 5.1222E-01 2.4389E-01 1.4087E-06 3.6866E-17 3.5335E-34 3.1941E-57	P T RHO H A S Z GAME U SPECIES E-A A ++++ A++++ AV	MOVING SHOCK 3.5276E+02 3.7255E+01 8.2224E+00 7.9888E+01 5.4347E+00 1.2418E+03 1.1516E+00 6.8846E-01 1.3618E+01 1.3163E-01 7.3675E-01 1.3163E-01 2.7030E-08 1.8853E-21 1.3685E-42 5.0416E-71	STANDING SHOCK 2.3602E+03 4.5581E+01 3.9183E+01 1.3897E+02 6.4772E+00 1.2886E+03 1.3215E+00 6.9651E-01 2.8610E+00 - MOLE FRACTIONS 2.4328E-01 5.1345E-01 2.4327E-01 1.3144E-06 3.0362E-17 2.3207E-34 1.4831E-57	REFLECTED SHOCK 3.3907E+03 4.8217E+01 5.0202E+01 1.6586E+02 6.8753E+00 1.3245E+00 1.4008E+00 6.9986E-01 2.6614E+00 2.8612E-01 4.2776E-01 2.8611E-01 3.8567E-06 4.1094E-16 3.3631E-32 4.6459E-54

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P 3.83925+02 2.71685+03 3.86075+03	P 4.4994E+02 3.5183E+03 4.9127E+03
7 3.7946E+01 4.6725E+01 4.9422E+01	T 3.9269E+01 4.9020E+01 5.1912E+01
	RHO 9.4273E+00 4.9941E+01 6.1895E+01
RHO 8.6330E+00 4.2792E+01 5.4168E+01	
H	H - 1.0031E+02 1.7771E+02 2.0939E+02
A	A, 5.7299E+00 7.0274E+00 7.4862E+00
\$ 1.2547E+00 1.3071E+00 1.3447E+00	S 1.2817E+00 1.3457E+00 1.3867E+00
2 1.1720E+00 1.3587E+00 1.4421E+00	Z 1.2154E+00 1.4371E+00 1.5290E+00
GAME 6.8835E-31 6.9781E-01 7.0165E-31	
U 1.4254E+01 2.8795E+00 2.6978E+00	U 1.5518E+01 2.9337E+00 2.7855E+00
the contract of the contract o	
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
AVECTES	
E- 1.4674E-01 2.6403E-01 3.0658E-01	E- 1.7723E-01 3.0417E-01 3.45%E-01
A 7.0651E-01 4.7195E-01 3.8685E-01	A 6.4553E-01 3.9166E-01 3.0809E-01
A+ 1.4674E-01 2.6402E-01 3.0657E-01	A+- 1.7723E-01 3.0416E-01 3.4593E-01
A+++ 5.7178E-21 1.0120E-16 1.2976E-15	A+++ 4.3416E-20 9.7370E-16 1.2283E-14
A++++ 1.0360E-41 2.3278E-33 2.9582E-31	A++++ 4.3088E-40 1.6872E-31 2.0743E-29
AV 7 9.4273E-70 6.6468E-50 1.5365E-52	AV 45-1.0096E-68 3-6.5313E-53 1.4893E-49
	AVI 0. 2.1834E-80 1.7301E-75.
1IVA	AVII 0. 0. 0.
AVIII O. O.	0. 0.
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·	P1 = 5.00E+01 N/Sy-M, US1= 5.80E+03 M/SEC
P1 = 5.00€+01 N/Su-M, US1≈ 5.40F+03 M/SEC	P1 = 5.00E+01 N/SU-M, US1= 5.80E+03 M/SEC
·	P1 = 5.00E+01 N/SU-H, US1= 5.80E+03 M/SEC
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC	The second secon
P1 = 5.006+01 N/SU-M, US1= 5.40F+03 M/SEC MUVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MUVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1632E+32 3.1029E+03 4.3679E+03	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MUVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1632E+02 3.1029E+03 4.3679E+03 T 3.8610E+01 4.7869E+01 5.0650E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 T 3.9908E+01 5.0189E+01 5.3228E+01
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P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MUVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 7 3.9908E+01 5.0189E+01 5.3228E+01 RHD 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.8314E+03 7.2216E+00 7.7078E+00 S 1.2958E+00 1.4783E+00 1.5745E+00 GAME 6.8806E-01 7.0292E-01 7.0890E-01 U 1.6149E+01 2.9691E+00 2.8374E+00 SPECIES
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MQVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1632E+32 3.1029E+03 4.3679E+03 T 3.8610E+01 4.7869E+01 5.0650E+01 RHO 9.3349F+30 4.6388E+01 5.8077E+01 H 9.3249E+01 1.6432E+02 1.9431E+02 A 5.6300E+00 6.8392E+00 7.2749E+00 S 1.2680E+00 1.3261E+00 1.3654E+00 Z 1.1933E+30 1.3973E+00 1.484.9E+00 GAME 6.878BE-31 6.9930E-01 7.0370E-01 U 1.488BE+91 2.9037E+00 2.7391E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 7 3.9908E+01 5.3189E+01 5.3228E+01 RHO 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.8314E+03 7.2216E+03 7.7278E+00 S 1.2958E+00 1.3658E+00 1.4085E+00 Z 1.2384E+03 1.4783E+00 1.5745E+00 GAME 6.8806E-01 7.0292E-01 7.0890E-01 U 1.6149E+01 2.9691E+00 2.8374E+00 SPECIES
P1 = 5.00E+01 N/Sy-M, US1= 5.40F+03 M/SEC MQVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 7 3.9908E+01 5.0189E+01 6.5608E+01 RHO 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.8314E+03 7.2216E+00 7.7078E+00 S 1.2984E+03 1.4783E+00 1.5745E+00 GAME 6.8806E-01 7.0292E-01 7.0890E-01 U 1.6149E+01 2.9691E+00 2.8374E+00 SPECIES
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MUVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1632E+02 3.1029E+03 4.3679E+03 T 3.8616E+01 4.7869E+01 5.0650E+01 RHO 9.3349F+02 4.6388E+01 5.8077E+01 H 9.3249E+01 1.6432F+02 1.9431E+02 A 5.6300E+00 6.8392E+00 7.2749E+00 S 1.2680E+00 1.3261E+00 1.3654E+00 C 1.1933E+00 1.3973E+00 1.4849E+00 GAME 6.8788E-01 6.9930E-01 7.0370E-01 U 1.4888E+01 2.9037E+00 2.7391E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 7 3.9908E+01 5.3189E+01 5.228E+01 RHD 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.8314E+03 7.2216E+00 7.7078E+00 S 1.2958E+00 1.3658E+00 1.4085E+00 2 1.2384E+03 1.4783E+00 1.5745E+00 GAME 6.8806E-01 7.0292E-01 7.0890E-01 U 1.6149E+01 2.9691E+00 2.8374E+00 SPECIES SPECIES MDLE FRACTIONS MDLE FRACTIONS FRACTIONS SPECIES MDLE FRACTIONS
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MUVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1632E+02 3.1029E+03 4.3679E+03 T 3.8610E+01 4.7869F+01 5.0650E+01 RHO 9.0349E+00 4.638BE+01 5.8077E+01 H 9.3249E+01 1.6432E+02 1.9431E+02 A 5.6300E+00 6.8392E+00 7.2749E+00 S 1.2680E+00 1.3261E+00 1.3654E+00 Z 1.1933E+00 1.3973E+00 1.4889E+00 GAME 6.878BE-01 6.9937E+00 2.7391E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 7 3.9908E+01 5.0189E+01 5.3228E+01 RHD 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.8314E+03 7.2216E+00 7.7078E+00 S 1.2958E+00 1.3658E+00 1.4085E+00 2.12384E+03 1.4783E+00 1.5745E+00 GAME 6.8806E+01 7.0292E+01 7.0890E+01 2.9691E+00 2.8374E+00 SPECIES
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MQVING SHOCK STANDING SHOCK REFLECTED SHOCK 4.1632E+02 3.1029E+03 4.3679E+03 T 3.80E10E+01 4.7869E+01 5.0650E+01 RHO 9.3349F+03 4.6388E+01 5.8077E+01 H 9.3249E+00 1.6432E+02 1.9431E+02 A 5.6300E+00 6.8392E+00 7.2749E+00 5.1.2680E+00 1.3261E+00 1.3654E+00 1.3654E+00 U 1.488E-01 6.9930E-01 7.0370E-01 U 1.4888E+01 2.9037E+00 2.7391E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.2928E+01 T 3.9908E+01 5.3189E+01 5.2228E+01 T 3.9908E+01 5.3189E+01 5.2228E+01 T 3.9483E+02 5.3443E+01 6.5608E+01 T 3.9483E+02 T 3.948E+02
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MQVING SHOCK STANDING SHOCK REFLECTED SHOCK 4.1632E+02 3.1029E+03 4.3679E+03 T 3.80E10E+01 4.7869E+01 5.0650E+01 RHO 9.3349F+03 4.6388E+01 5.8077E+01 H 9.3249E+00 1.6432E+02 1.9431E+02 A 5.6300E+00 6.8392E+00 7.2749E+00 5.1.2680E+00 1.3261E+00 1.3654E+00 1.3654E+00 U 1.488E-01 6.9930E-01 7.0370E-01 U 1.4888E+01 2.9037E+00 2.7391E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 7 3.9908E+01 5.0189E+01 5.3228E+01 RHD 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.8314E+03 7.2216E+00 7.7078E+00 S 1.2958E+00 1.3658E+00 1.4085E+00 2.12384E+03 1.4783E+00 1.5745E+00 GAME 6.8806E+01 7.0292E+01 7.0890E+01 2.9691E+00 2.8374E+00 SPECIES
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MUVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 7 3.9908E+01 5.0189E+01 5.3228E+01 RHD 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.3314E+03 7.2216E+00 7.7078E+00 S 1.2958E+30 1.3658E+00 1.4085E+00 2.1.2384E+03 1.4783E+00 1.5745E+00 GAME 6.8806E-01 7.0292E-01 7.0890E-01 U 1.6149E+01 2.9691E+00 2.8374E+00 SPECIES MOLE FRACTIONS FRA
P1 = 5.00E+01 N/Sy-M, US1= 5.40F+03 M/SEC MUVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 7 3.9908E+01 5.0189E+01 5.3228E+01 RHD 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.8314E+03 7.2216E+00 7.7078E+00 S 1.2958E+03 1.3658E+00 1.4085E+00 2 1.2384E+03 1.4783E+00 1.5745E+00 GAME 6.8806E-01 7.0292E-01 7.0890E-01 U 1.6149E+01 2.9691E+00 2.8374E+00 SPECIES SPECIES MOLE FRACTIONS SPECIES MOLE FRACTIONS A 6.1497E-01 3.2353E-01 3.6486E-01 A 6.1497E-01 3.2351E-01 3.6481E-01 A+ 1.9252E-01 3.2351E-01 3.6481E-01 A+ 1.5967E-07 8.7921E-06 2.5094E-05 A++ 1.1289E-19 2.9946E-15 3.7858E-14 A+++ 2.9993E-39 1.3129E-30 1.7294E-28 AV 1.1493E-65 1.7410E-51 4.5327E-48 4.5412E-48 4.5412E-48 4.5412E-48 4.
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 T 3.9908E+01 5.3189E+01 5.228E+01 RHD 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.8314E+03 7.2216E+00 7.7078E+00 S 1.2958E+00 1.3658E+00 1.4085E+00 2 1.2384E+03 1.4783E+00 1.5745E+00 GAME 6.8806E-01 7.0292E-01 7.0890E-01 U 1.6149E+01 2.9691E+00 2.8374E+00 SPECIES
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MUVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 7 3.9908E+01 5.0189E+01 5.3228E+01 RHD 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.3314E+03 7.2216E+00 7.7078E+00 S 1.2958E+30 1.3658E+00 1.4085E+00 1.2384E+03 1.4783E+00 1.5745E+00 GAME 6.8806E+01 7.0292E+01 7.0890E+01 U 1.6149E+01 2.9691E+00 2.8374E+00 SPECIES MOLE FRACTIONS FRACT
P1 = 5.00E+01 N/SU-M, US1= 5.40F+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.8488E+02 3.9651E+03 5.4983E+03 T 3.9908E+01 5.3189E+01 5.228E+01 RHD 9.8108E+00 5.3443E+01 6.5608E+01 H 1.0762E+02 1.9161E+02 2.2510E+02 A 5.8314E+03 7.2216E+00 7.7078E+00 S 1.2958E+00 1.3658E+00 1.4085E+00 2 1.2384E+03 1.4783E+00 1.5745E+00 GAME 6.8806E-01 7.0292E-01 7.0890E-01 U 1.6149E+01 2.9691E+00 2.8374E+00 SPECIES

P1 = 5	-00E+01 N/SQ-M	. US1= 6.00E+0	3 M/SEC	P1 = 5	5:00E+01 N/SQ-M	. US1= 6.40E+0	3 M/SEC
	MOVENUE SHOCK	STANDING SHOCK	REFLECTED SHOCK		MUNITHE SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	5.2076E+02	4.4343E+03	6.1143E+03	P	5.9662E+02	5.4677E+03	7.4767E+03
Ť		5.1372E+01	5.4600E+01	f	4.1763E+01	5.3877E+01	5.7690E+01
RHO	4.05335+01			RHO			
	1.0179E+01	5.6781E+01	6.9092E+01		1.0886E+01	6.3131E+01	7-5480E+01
H	1.1518E+02	2.0588E+02	2.4127E+02	H	1.3107E+02	2.3602E+02	2.7570E+02
A .	5.9345E+00	7.4206E+00	7.9392E+00	A	6-1463E+00	7.8457E+00	8-4553E+00
<u> </u>	1.3103E+00	1.3862E+00	1.4306E+00	<u>s</u>	1.3404E+00	1.4283E+00	1.4763E+00
Z	1.2622E+30	1.5202E+00	1.6208E+00	Z	1.3123E+00	1.6075E+00	1.7170E+00
GAME	6.8836E-01	7.0512E-01	7.1226E-01	GAME	6.8928E-01	7.1072E-01	7.2174E-01
U	1.6768E+01	3.0104E+00	2.8956E+00	u ;	1.8015E+01	3.11126+00	3.0355E+00
SPEC IES	,	- MOLE FRACTIONS		SPECIE	5	- MOLE FRACTIONS	
E-	2.0775E-01	3.4218E-01	3.8302E-01	; E-	2.3799E-01	3.7793E-01	4-1760E-01
A	5.8451E-01	3.15656-01	2.3401E-01	A	5-2402E-01	2.4417E-01	1.6491E-01
Δ+	2.0775E-01	3.42166-01	3.8294E-01	A+	2.3799E-01	3.7786E-01	4-1738E-01
A++	2.3450E-07	1.3673E-05	4-0051E-05	A++	4.8201E-07	3.3218E-05	1.08546-04
A+++ ·	2.7632E-19	8.3922E-15		A+++	1.4578E-18	7.2153E-14	1-3254E-12
A++++	1.6417E-38	9.6534E-30		A++++	3.3685E-37	5.5724E-28	1.3307E-25
ΔV	1.861 7E-64	4.0673E-50	1.3577E-46	` AV	1.3877E-62	2.8676E-47	1.8306E-43
AVI	5.	2.0807E-76	3.9604E-71	AVI	0.	4.0660E-72	1.4541 E-66
AVII :	0.	0.	0.	AVII	0.	0.	0.
IIIVA	J.	0.	0.	IIIVA	o.	0.	0.
			, .				•
		*					
	· .						
							• ' •
P1 = 5	5.00E+01 N/SQ-M	. US1= 6.20F+0	D3 M/SEC	P1 = !	5.00E+01 N/SQ-M	I, US1= 6.60E+0	3 M/SEC
	MOUTHE SHOCK	CTANDING CHOCK			MOUTHS SHOCK	CTANATHE CHOCK	0.551 55.750 5110.5V
φ.			REFLECTED SHOCK	P		STANDING SHOCK	REFLECTED SHOCK
Tr.	5.5786E+02	4.9316E+03	6.7689E+03	Ĭ.	6.3632E+02	6.0235E+03	8 • 221 9E + 03
RHD	4.115JE+01	5.2590E+01	5-6067E+01	RHD	4.2369E+01	5.52226+01	5-9514E+01
	1.0535E+01	5.9990E+01	7.2371E+01		1.1220E+01	6.6012E+01	7.8198E+01
H `	1.22996+02	2.2063E+02	2.5806E+02	, н	1.3940E+02	2.5178E+02	2.9410E+02
	6.U393E+00	7.6273E+00	8-18576+00	A	6.2551E+00	8.0737E+00	8.7542E+00
Ş .	1.3252E+00	1.4069E+00	1.4531E+00	Ş	1.3560E+00	1.4498E+00	1 • 4999E +00
Z	1.2868E+00	1.5632E+00	1.6682F+00	ž	1.3386E+00	1.6524E+00	1.7667E+00
GAME	6.8877E-01	7.0767E-01	7.1640E-01	GAME	6.8989E-01	7.1436E-01	7.2887E-01
U	1.7386E+01	3.0579E+00	2.9610E+00	U	1.8633E+01	3.1719E+00	3.1374E+00
SPEC IES	5	- MOLE FRACTIONS	·	SPECIES	5	- MOLE FRACTIONS	·
E-	2.2291E-01	3.6027E-01	4.0055E-01	E-	2.5293E-01	3.94826-01	4.3396E-01
Α .	5.54198-01	2.7949E-01	1.9896E-01	A	4.9414E-01	2.1041E-01	1.3226E-01
A+	2.2291E-01	3.6023E-01	4.0042E-01	. A+	2.5293E-01	3.9472E-01	4.3358E-01
A++ '.	3.3846E-07	2.1227E-05	6.4900E-05	A++	6.7815E-07	5. 2265E-05	1.89476-04
A+++	6.4486E-19	2.4398E-14	3.7991E-13	A+++	3.2440E-18	2.1637E-13	5.1410E-12
A++++	7.8232E-38	7.3137E-29	1.3014E-26	A++++	1.5048E-36	4.3207E-27	1.6488E-24
ÂV	2.1153E-63	1.1228E-48	4.5721E-45	AV	1.2264E-61	7.3885E-46	9.9717E-42
AVI	3.	3.6046E-74	6.9470E-69	AVI	0.	4.3957E-70	4.8690E-64
AVII	0.	0.	- 0.	AVII	3.	0.	0.
AVIII	0-	0.	0-	AVIII	0-	0.	0-

p₁ = 50 N/ m²

P1 = 5.00E+01 N/SQ-M.

US1= 7.20E+03 M/SEC

	MUATHC CHUCK	STANDING SHOCK	REFLECTED SHOCK	•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	4.7723F+02	6.6043E+03	8. 9986E+03	P	7.6267E+02	7.8327E+03	1.0696E+04
Ť	4.2974E+01	5.6662E+01	6.1595E+01	T	4.4186E+01	5.9990E+01	6.7384E+01
RHO	1.1540E+01	6.8648E+01	8.0473E+01	RHO	1.2139E+01	7.2970E+01	8.3122E+01
H	1.4798E+02	2.6799E+02	3.1290E+02	н	1.6590E+02	3.0179E+02	3.5345E+02
Ä	4.3661E+00	8.3161E+00	9. 087 BE +00	Ä	6.5950E+00	8.8652E+00	9.9580E+00
ŝ	1.3720E+30	1.4715E+00	1.5233E+00	ŝ	1.4048E+00	1.51546+00	1.5712E+00
ž	1.36562+00	1.6979E+00	1.8155E+00	ž	1.4219E+00	1.78936+00	1.9097E+00
GAME	4.9059E-01	7.1887E-01	7.3857E-01	GAME	6.9228E-01	7.3217E-01	7.7061E-01
U	1.9250E+01	3.2409E+00	3.2262E+00	U	2.04776+01	3.4115E+00	3-5002E+00
J	1.72300.01	3.24072.00	3.22.02.100	•			
SPEC IES		- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	·
_				e	3 04 735 - 01	4 41125 01	4 74 355-01
E-	2.6771E-01	4.1103E-01	4.4917E-01	E-	2.9672E-01	4.4113E-01	4.7635E-01
A	4.6457E-01	1.7803E-01	1.0200E-01	A	4.0657E-01	1.1798E-01	4.8954E-02
A+	2.6771E-01	4.1086E-01	4.4848E-01	A+	2.9671E-01	4.4066E-01	4.7305E-01
A++	9.4522F-07	a.3594E-05	3.4839E-04	A++	1.7892E-06	2.3437E-04	1.6519E-03
A+++	7.1636E-18	6.76718-13	2.2658E-11	A+++	3.1940E-17	8.3135E-12	1.0099E-09
A++++	7.3005E-36	3.6212E-26	2.5627E-23	A++++	1.1551E-34	3.8379E-24	2.7609E-20
AV	3.1221E-60	2.1790E-44	7.6930E-40	AV	2.25792-58	3.6721E-41	4.6870E-35
JVA	0.	6.0393E-68	2.6770E-61	AVI	1.0322E-88	3.1920E-63	2.2804E-54
AVII	J.) .	5.0136E-91	IJVA	J.	o.	B.4527E-81
IIIVA	0.	0.	0.	1)) VA	0.	0.	0.
P1 = 5	-00E+01 N/SQ-M	. US1= 7.00E+0	3 M/SEC	P1 = 5	5.00E+01 N/SQ-M	, US1= 7.40E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	•	MOVING SHOCK	STANDING SHOCK	
P	7.1935E+02	7.2082E+03	9.81602+03				REFLECTED SHOCK
Ŧ	4.3579E+01			P	8.0718E+02	8.4739E+03	1.1620E+04
RHO	1.1847E+01	5.8233E+01	6.4106E+01	Ť	4.4797E+01	6.2015E+01	1.1620E+04 7.1462E+01
. н -		7.0990E+01	6.4106E+01 8.2181E+01	T RHO	4.4797E+01 1.2417E+01	6.2015E+01 7.4496E+01	1.1620E+04 7.1462E+01 8.3388E+01
	1.5681E+02	7.0990E+01 2.8467E+02	6.4106E+01 8.2181E+01 3.3243E+02	T RHO H	4.4797E+01 1.2417E+01 1.7524E+02	6.2015E+01 7.4496E+01 3.1934E+02	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02
A	1.5681E+02 6.4794E+00	7.0990E+01 2.8467E+02 8.6776E+00	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00	T RHO H A	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00	6.2015E+01 7.4496E+01 3.1934E+02 9.1898E+00	1.1620E+04 7.1462E+01 8.338EE+01 3.7534E+02 1.0437E+01
S	1.5681E+02 6.4794E+00 1.3882E+00	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00	T RHO H A S	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00	6.2015E+01 7.4496E+01 3.1934E+02 9.1898E+00 1.5374E+00	1.1620E+04 7.1462E+01 8.338E+01 3.7534E+02 1.0437E+01 1.5948E+00
S Z	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.8632E+00	T RHO H A S	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+30	6.2015E+01 7.4496E+01 3.1934E+02 9.1898E+00 1.5374E+00 1.8342E+00	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.9499E+00
S Z GAME	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00 7.2461E-01	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.8632E+00 7.5225E-01	T RHO H A S Z GAME	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+00 6.9327E-01	6.2015E+01 7.4496E+01 3.1934E+02 9.1898E+00 1.5374E+00 1.8342E+00 7.4244E-01	1.1620E+04 7.1662E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.949E+00 7.8176E-01
S Z	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.8632E+00	T RHO H A S	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+30	6.2015E+01 7.4496E+01 3.1934E+02 9.1898E+00 1.5374E+00 1.8342E+00	1.1620E+04 7.1662E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.9499E+00
S Z GAME	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00 7.2461E-01	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.8632E+00 7.5225E-01 3.3292E+00	T RHO H A S Z GAME	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+00 6.9327E-01 2.1048E+01	6.2015E+01 7.4496E+01 3.1934E+02 9.1898E+00 1.5374E+00 1.8342E+00 7.4244E-01	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0637E+01 1.5948E+00 1.949E+00 7.8176E-01 3.6891E+00
S Z GAME U	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7496E+00 7.2461E-01 3.3199E+00	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.8632E+00 7.5225E+01 3.3292E+00	T RHO H A S Z GAME U	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+00 6.9327E-01 2.1048E+01	6.2015E+01 7.4498E+01 3.1934E+02 9.1898E+00 1.5374E+00 1.834ZE+00 7.4244E-01 3.5198E+00	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.9499E+00 7.8176E-01 3.6891E+00
S Z GAME U SPECIES	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00 7.2461E+01 3.3199E+00 - MOLE FRACTIONS 4.2649E-01	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.8632E+00 7.5225E-01 3.3292E+00	T RHO H A S Z GAME U SPECIES	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4217E+00 6.9327E-01 2.10d8E+01	6.2015E+01 7.4496E+01 3.1934E+02 9.1898E+00 1.5374E+00 -1.8342E+00 7.4244E-01 3.5198E+00 - MOLE FRACTIONS 4.5482E-01	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.949E+00 7.8176E-01 3.6891E+00
S Z GAME U SPECIES	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+01 3.3199E+00 - MOLE FRACTIONS 4.2649E-01 1.4716E-01	6.4106E-01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.6632E+00 7.5225E-01 3.3292E+00	T RHO HH A S Z GAME U SPECIES	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+01 2.1048E+01 3.1090E-01 3.7821E-01	6.2015E-01 7.4496E-01 3.1934E-02 9.1898E-00 1.5374E-00 1.8342E-01 3.5198E-00 - MOLE FRACTIONS 4.5482E-01 9.0794E-02	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.9499E+00 7.8176E-01 3.6891E+00
S Z GAME U SPECIES	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01 2.8232E-01 4.3537E-01 2.8231E-01	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00 7.2461E-01 3.3199E+00 - MDLE FRACTIONS 4.2649E-01 1.4716E-01 4.2621E-01	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.5632E+00 7.5225E+01 3.3292E+00	T RHO H A S Z GAME U SPECIE:	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+01 2.1048E+01 2.1048E+01 3.1090E-01 3.7821E-01 3.1089E-01	6.2015E+01 7.4498E+01 3.1934E+02 9.1898E+00 1.5374E+00 1.834ZE+00 7.4244E-01 3.5198E+00 - MOLE FRACTIONS 4.548ZE-01 9.0794E-02 4.5397E-01	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.9499E+00 7.8176E-01 3.6891E+00 4.8716E-01 3.0030E-02 4.7845E-01
S Z GAME U SPECIES E-AA+A++	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01 2.8232E-01 4.3537E-01 2.8231E-01 1.3352E-06	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00 7.2461E-01 3.3199E+00 - MOLE FRACTIONS 4.2649E-01 1.4716E-01 4.2621E-01 1.3725E-04	6.4106E-01 8.2181E+01 3.3243E+02 9.4790E+00 1.5649E+00 1.8632E+00 7.5225E-01 3.3292E+00 4.6330E-01 7.4105E-02 4.6190E-01 7.0151E-04	T RHO H A S Z GAME U SPECIE:	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+00 6.9327E-01 2.1048E+01 3.1090E-01 3.7821E-01 3.7821E-01 3.1089E-01 2.4410E-06	6.2015E-01 7.4496E-01 3.1934E+02 9.1898E+00 1.5374E+00 1.8342E+00 7.4244E-01 3.5198E+00 - MOLE FRACTIONS 4.5482E-01 9.074E-02 4.539TE-01 4.2381E-04	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.9499E+00 7.8176E-01 3.6891E+00 4.8716E-01 3.0030E-02 4.7845E-01 4.3594E-03
S Z GAME U SPECIES E-AAA++A+++	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01 2.8232E-01 4.3537E-01 2.8231E-01 1.3052E-06 1.5293E-17	7.0090E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00 7.2461E-01 3.3199E+00 - MOLE FRACTIONS 4.2649E-01 1.4716E-01 4.2621E-01 1.3725E-04 2.2699E-12	6.4106E-01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.6632E+00 7.5225E-01 3.3292E+00	T RHO HH A S Z GAME U SPECIES	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+01 2.1048E+01 2.1048E+01 3.1090E-01 3.7821E-01 3.1089E-01 2.4410E-06 6.6203E-17	6.2015E-01 7.4496E-01 3.1934E-02 9.1898E-00 1.5374E-00 7.4244E-01 3.5198E+00 - MOLE FRACTIONS 4.5482E-01 9.0744E-02 4.5397E-01 4.2381E-04 3.5139E-10	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.9499E+00 7.8176E-01 3.6891E+00 4.8716E-01 3.0030E-02 4.7845E-01 4.3594E-03 1.0903E-08
S Z Z GAME U SPECIES E- A A+ + + + + + + + + + + + + + + + + +	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01 2.8232E-01 4.3537E-01 2.8231E-01 1.3052E-06 1.5293E-17 3.0295E-35	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00 7.2461E-01 3.3199E+00 - MOLE FRACTIONS 4.2649E-01 1.4716E-01 4.2621E-01 1.3725E-04 2.2699E-12 3.4298E-12	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.5469E+00 7.5225E+01 3.3292E+00 4.6330E+01 7.4105E+02 4.6190E+01 7.0151E+04 1.2487E+10 5.9655E+22	T RHO H A S Z GAME U SPECIE:	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+00 6.9327E-01 2.1088E+01 3.1090E-01 3.7821E-01 3.1089E-01 2.4410E-06 6.6203E-17 4.3236E-34	6.2015E+01 7.4498E+01 3.1934E+02 9.1898E+00 1.5374E+00 1.834ZE+00 7.4244E-01 3.5198E+00 - MOLE FRACTIONS 4.548E-01 9.0794E-02 4.5397E-01 4.2381E-04 3.5139E-13 5.4845E-23	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.9499E+00 7.8176E-01 3.6891E+00 4.8716E-01 3.0030E+02 4.7845E-01 4.3594E-03 1.0903E-08 2.1497E-18
S Z GAME U SPECIES E- A A+ A+++ A++++ A++++ A++++ A++++ A+++++ A+++++ A++++++	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01 2.8232E-01 4.3537E-01 2.8231E-01 1.3052E-06 1.5293E-17 3.0295E-35 3.0985E-59	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00 7.2461E-01 3.3199E+00 - MOLE FRACTIONS 4.2649E-01 1.4716E-01 4.2621E-01 1.3725E-04 2.2699E-12 3.4298E-25 7.9271E-43	6.4106E-01 8.2181E+01 3.3243E+02 9.4790E+00 1.5649E+00 1.8632E+00 7.5225E-01 3.3292E+00 4.6330E-01 7.4105E-02 4.6190E-01 7.0151E-04 1.2487E-10 5.9655E-22 1.1207E-37	T RHO HH A S Z GAME U SPECIE: E A A + A + + + + + + + + + + + + + + +	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+01 2.1048E+01 3.1090E-01 3.7821E-01 3.7821E-01 3.1089E-01 2.4410E-06 6.6203E-17 4.3236E-34 1.2940E-57	6.2015E+01 7.4496E+01 3.1934E+02 9.1898E+00 1.5374E+00 1.8342E+01 3.5198E+00 - MOLE FRACTIONS 4.5482E-01 9.0794E-02 4.5397E-01 4.2381E-04 3.5139E-11 5.4845E-23 2.4604E-39	1.1620E+04 7.162E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.949E+00 7.8176E-01 3.6891E+00 4.8716E-01 3.0030E-02 4.7845E-03 1.0903E-08 2.1497E-18 4.3975E-32
S Z GAME U SPECIES E-AA++A+++A+++AVI	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01 2.8232E-01 4.3537E-01 2.8231E-01 1.3052E-06 1.5293E-17 3.0295E-35 3.0985E-59 3.	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7496E+00 7.2461E-01 3.3199E+00 - MOLE FRACTIONS 4.2649E-01 1.4716E-01 4.2621E-01 1.3725E-04 2.2639E-12 3.4298E-25 7.9271E-43 1.2008E-65	6.4106E+01 8.2181E+01 3.3243E+02 9.4790E+00 1.5469E+00 1.6832E+00 7.5225E+01 3.3292E+00 4.6330E+01 7.4105E+02 4.6190E+01 7.0151E+04 1.2487E+10 5.9655E+22 1.1207E+37 3.7413E+58	T RHO HH A S Z GAME U SPECIE: E- A A+ A+++ A+++ AV AVI	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+00 6.9327E-01 2.1048E+01 3.1090E-01 3.7821E-01 3.1089E-01 2.4410E-06 6.6203E-17 4.3236E-34 1.2940E-57 3.2455E-87	6.2015E+01 7.4498E+01 3.1934E+02 9.1898E+00 1.5374E+00 7.4244E-01 3.5198E+00 - MOLE FRACTIONS 4.5482E-01 9.0794E-02 4.5397E-01 4.2381E-04 3.5139E-11 5.4845E-23 2.4604E-39 1.4185E-60	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.9499E+00 7.8176E-01 3.6891E+00 4.8716E-01 3.0030E-02 4.7845E-01 4.3594E-03 1.0903E-08 2.1497E-18 4.3975E-32 4.4104E-50
S Z GAME U SPECIES E- A A++ A+++ A++++ AV	1.5681E+02 6.4794E+00 1.3882E+00 1.3934E+00 6.9139E-01 1.9864E+01 2.8232E-01 4.3537E-01 2.8231E-01 1.3052E-06 1.5293E-17 3.0295E-35 3.0985E-59	7.0990E+01 2.8467E+02 8.6776E+00 1.4934E+00 1.7436E+00 7.2461E-01 3.3199E+00 - MOLE FRACTIONS 4.2649E-01 1.4716E-01 4.2621E-01 1.3725E-04 2.2699E-12 3.4298E-25 7.9271E-43	6.4106E-01 8.2181E+01 3.3243E+02 9.4790E+00 1.5649E+00 1.8632E+00 7.5225E-01 3.3292E+00 4.6330E-01 7.4105E-02 4.6190E-01 7.0151E-04 1.2487E-10 5.9655E-22 1.1207E-37	T RHO HH A S Z GAME U SPECIE: E A A + A + + + + + + + + + + + + + + +	4.4797E+01 1.2417E+01 1.7524E+02 6.7133E+00 1.4217E+00 1.4512E+01 2.1048E+01 3.1090E-01 3.7821E-01 3.7821E-01 3.1089E-01 2.4410E-06 6.6203E-17 4.3236E-34 1.2940E-57	6.2015E+01 7.4496E+01 3.1934E+02 9.1898E+00 1.5374E+00 1.8342E+01 3.5198E+00 - MOLE FRACTIONS 4.5482E-01 9.0794E-02 4.5397E-01 4.2381E-04 3.5139E-11 5.4845E-23 2.4604E-39	1.1620E+04 7.1462E+01 8.3388E+01 3.7534E+02 1.0437E+01 1.5948E+00 1.949E+00 7.8176E-01 3.6891E+00 4.8716E-01 3.0030E+02 4.7845E+03 1.0903E+08 2.1497E-18 4.3975E-32

P1 = 5.00E+01 N/SQ-M.

US1= 6.80E+03 M/SEC

		•				•	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P. 1	8.52885+02	9.1252E+03	1.2578E+04	P	9.4784E+02	1.0447E+04	1.4540E+04
Ť	4.542úE+01	6.4429E+01	7.5868E+01	Ť	4.6690F+J1	7.0950E+01	8.2718E+01
			8.3533E+01	RHO	1.3155E+01	7.5445E+01	
RHO	1.2676E+01	7.5441E+01					8.5726E+01
H .	1.8483E+02	3.3731E+02	3.9791E+02	H	2.0478E+02	3.7440E+02	4.431 OE + 02
Α .	6.8353E+00	. 9.5651E+00	1.0747E+01	A	7.0866E+00	1.0407E+01	1.1136E+01
\$	1.4390E+00	1.5593E+00	1.6180E+00	S	1.4741E+00	1.6018E+00	1.6614E+00
Z.	1.4814E+JO	1.8774E+00	1.9847E+00	Z	1.5431E+00	1.9516E+00	2.0504E+00
GAME	6.94392-01	7.5639E-01	7.6698E-01	GAME	. 6.9702E-01	7.8224E-01	7.3115E-01
Ü	2.1697E+01	3.6506E+00	3.8824F+00	U	2.2910E+01	3.9996E+00	4.1489E+00
•			,				
		•					
SPECIE	·	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
3, 2012	•.		•	5, 55523			
ė	3.2494E-01	4.6734E-01	4.9615E-Ó1	E-	3.5197E-01	4.8760E-01	5.1230E-01
E	3.5012E-01	6.6156E-02	1.8675E-02	à ·	2.9607E-01	2.9061E-02	1.0143E-02
A+	3.2494E-01	4.6567E-01	4.7420E-01	A+	3.5196E-01	4.7906E-01	4-4283E-01
Δ++	3.3284E-06	8.3148E-04	1.0974E-02	A++ '	6.1251E-06	4.2699E-03	3-4730E-02
A+++	. 1.3925E-16	1.8148E-10	1.0750E-07	A+++	5.9607E-16	9.8938E-09	2.0701 E-06
A++++	1.85716-33	1.12386-21	1.42556-16	A++++	2.8626E-32	1.6843E-18	3.4340E-14
ÁV	2.0914E-56	2.8865E-37	3.2161E-29	AV	1.7296E-54	2.7692E-32	1.8904E-25
AVI	7.1761E-86	1.4006E-57	5.9669E-46	IVA	5.0792E-83	2.0321E-50	1.7192E-40
AVII	3.	2.25678-85	6.9065E-69	AV I I	J.	2.5960E-75	3.8973E-61
	0.	0.	0.	IIIVA	J.	0.	2.5117E-86
IJIVA		٠.	4.	44111	٠.		2431116 00
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P1 =	5.00E+01 N/SQ-N	, US1= 7.80E+0	D3 M/SEC	P1 = 5	.0JE+01 N/SQ-4	• US1= 8.20E+0	3 M/SEC
P1 =	5.00E+01 N/SQ-N	, US1= 7.80E+0	3 M/SEC	P1 = 5	.00E+01 N/SQ-4	. US1= 8.20E+0	3 M/SEC
P1 =	5.00E+01 N/SQ-M	, US1= 7.80E+0	O3 M/SEC	P1 = 5	.00E+01 N/SQ-M		
P1 =				P1 = 5	.00E+01 N/SQ-M		3 M/SEC
P1 =	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 8.9977E+02	STANDING SHOCK 9.7854E+03	REFLECTED SHOCK 1.3556E+04	P .	MOVING SHOCK 9.9708E+02	STANDING SHOCK 1.1119E+04	REFLECTED SHOCK
P T	MOVING SHOCK 8.9977E+02 4.6046E+01	STANDING SHOCK 9.7854E+03 6.7392E+01	REFLECTED SHOCK 1.3556E+04 7.9683E+01	Р Т	MDVING SHOCK 9.9708E+02 4.7351E+01	STANDING SHOCK 1.1119E+04 7.4727E+01	REFLECTED SHOCK 1.5551E+04 8.5322E+01
P T RHO	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01	STANDING SHOCK 9.7854E+03 6.7392E+01 7.5743E+01	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01	P T RHO	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01	STANDING SHOCK 1.1119E+04 7.4727E+01 7.5093E+01	REFLECTED SHOCK 1.5551E+04 8.5322E+01 8.7420E+01
P T	MOVING SHOCK 8.9977E+02 4.6046E+01 1.925E+01 1.9468E+02	STANDING SHOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02	P T RHO H	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02	STANDING SHOCK 1.1119E+04 7.4727E+01 7.5093E+01 3.9357E+02	REFLECTED SHOCK 1.5551E+04 8.532E+01 8.7420E+01 4.6632E+02
P T RHO	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9588E+00	STANDING SHOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01	P T RHO H A	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00	STANDING SHOCK 1.1119E+04 7.4727E+01 7.5093E+01 3.9357E+02 1.0680E+01	REFLECTED SHOCK 1.5551E+04 8.5322E+01 8.7420E+01 4.6632E+02 1.1342E+01
P T RHO H	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9588E+03 1.4564E+00	STANDING SHOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00	P T RHO H A S	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+00	STANDING SHOCK 1-1119E+04 7-4727E+01 7-5093E+01 3-9357E+02 1-0680E+01 1-6222E+00	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00
P T RHO H	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9588E+00	STANDING SHOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01	P T RHO H A	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00	STANDING SHOCK 1.1119E+04 7.4727E+01 7.5093E+01 3.9357E+02 1.0680E+01	REFLECTED SHOCK 1.5551E+04 8.5322E+01 8.7420E+01 4.6632E+02 1.1342E+01
P T RHO H	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9588E+00 1.5118E+00	STANDING SHOCK '9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00	P T RHO H A S	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+00	STANDING SHOCK 1-1119E+04 7-4727E+01 7-5093E+01 3-9357E+02 1-0680E+01 1-6222E+00	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00
P T RHO H A S	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9588E+03 1.4564E+00	STANDING SHOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00	P T RHO H A S Z	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+JO 1.5751F+00	STANDING SHOCK 1-1119E+04 7-4727E+01 7-5093E+01 3-9357E+02 1-0680E+01 1-6222E+00 1-9815E+00	REFLECTED SHOCK 1.5551E+04 8.5322E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.0849E+00
P T RHO H S S Z GAME	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9588E+00 1.4564E+00 1.5118E+00 6.9563F-01	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01	REFLECTED SHOCK 1.3556E+04 7.96B3E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01	P. T. RHO H. A. S. Z. GAME	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+>0 1.5751F+00 6.9860E-01	STANDING SHOCK 1.1119E+04 7.472TE+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.084 E+00 7.2321E-01
P T RHO H S S Z GAME	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.958BE+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2304E+01	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00	P. T. RHO H. A. S. Z. GAME	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+00 6.9860E-01 2.3513E+01	STANDING SHOCK 1.1119E+04 7.4727E+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1928E+00	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.0849E+00 7.2321E-01 4.2668E+00
P T RHO H S S Z GAME U	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.958BE+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2304E+01	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00	P. T. RHO H. A. S. Z. GAME	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+00 6.9860E-01 2.3513E+01	STANDING SHOCK 1.1119E+04 7.472TE+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.0849E+00 7.2321E-01 4.2668E+00
P T RHO H S S Z GAME	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.958BE+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2304E+01	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00	P T RHO H A S Z GAME U	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+00 6.9860E-01 2.3513E+01	STANDING SHOCK 1.1119E+04 7.4727E+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1928E+00	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.0849E+00 7.2321E-01 4.2668E+00
P T RHO H S S Z GAME U SPECIE	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9458E+02 6.9588E+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2324E+01	STANDING SHOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00	P T RHO H A S Z GAME U	MOVING SHOCK 9-9708E+02 4-7351E+01 1-3369E+01 2-1514E+02 7-2183E+00 1-4921E+30 1-5751F+00 6-9860E-01 2-3513E+01	STANDING SHOCK 1.1119E+04 7.472TE+01 7.5093E+01 3.9357E+02 1.0880E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1928E+00	REFLECTED SHOCK 1.5551E+04 8.552E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.084 9E+00 7.2321E-01 4.2668E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9538E+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2304E+01	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00 - MOLE FRACTIONS	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+00 6.9860E-01 2.3513E+01	STANDING SHOCK 1.1119E+04 7.4727E+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1928E+00 - MOLE FRACTIONS 4.9534E-01	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.084 9E+00 7.2321E-01 4.2668E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9588E+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2304E+01	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00 - MOLE FRACTIONS 4.7837E-01 4.5078E-02	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+00 6.9860E-01 2.3513E+01 3.6512E-01 2.6978E-01	STANDING SHOCK 1-1119E+04 7-472FE+01 7-5093E+01 3-9357E+02 1-0680E+01 1-622E+00 1-9815E+00 7-7037E-01 4-1928E+00	REFLECTED SHOCK 1.5551E+04 8.5522E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.0849E+00 7.2321E-01 4.2668E+00
PTRHOHA SZGAME U SPECIE	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9588E+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2304E+01 3.3854E-01 3.2292E-01 3.3853E-01	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00 - MOLE FRACTIONS 4.7837E-01 4.5078E-02 4.7475E-01	REFLECTED SHOCK 1.3556E+04 7.96B3E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00 5.0437E-01 1.3041E-02 4.6080E-01	P. T. RHO H. A. S. Z. GAME. U. SPECIES	MOVING SHOCK 9-9708E+02 4-7351E+01 1-3369E+01 2-1514E+02 7-2183E+00 1-4921E+>0 1-5751F+00 6-9860E+01 2-3513E+01 	STANDING SHOCK 1.1119E+04 7.472TE+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1928E+00 - MOLE FRACTIONS 4.9534E-01 1.8988E-02 4.7601E-01	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.084 E+00 7.2321E-01 4.2668E+00
P T RHO H S Z GAME U SPECIE E-A A+A+	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9588E+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2304E+01 5	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00 - MOLE FRACTIONS 4.7837E-01 4.5078E-02 4.7475E-01 1.6087E-01	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+01 1.6404E+01 2.0176E+00 7.4497E-01 4.0374E+00 5.0437E-01 1.3041E-02 4.6080E-01 2.1787E-02	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+00 6.9860E-01 2.3513E+01 3.6512E-01 2.6978E-01 3.6510E-01 9.3268E-06	STANDING SHOCK 1.1119E+04 7.4727E+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1928E+00 - MOLE FRACTIONS 4.9534E-01 1.8988E-02 4.7601E-01 9.6631E-03	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.084 9E+00 7.2321E-01 4.2668E+00 5.2037E-01 8.3402E-03 4.222E-01 4.9067E-02
P T RHO H A S Z GAME U SPECIE E- A A++ A+++	MOVING SHOCK 8-9977E+02 4-6046E+01 1-2925E+01 1-9468E+02 6-9588E+00 1-5118E+00 6-9563F-01 2-2304E+01 3-3854E-01 3-2292E-01 3-3453E-01 4-5126E-06 2-8841E-16	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00 - MOLE FRACTIONS 4.7837E-01 4.5078E-02 4.7475E-01 1.6087E-03 1.2083E-09	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00 5.0437E-01 1.3041E-02 4.6080E-01 2.1787E-02 6.1126E-07	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A++	MOVING SHOCK 9-9708E+02 4-7351E+01 1-3369E+01 2-1514E+02 7-2183E+00 1-4921E+10 1-5751F+00 6-9860E-01 2-3513E+01 3-6512E-01 2-6978E-01 3-6510E-01 9-3268E-06 1-2353E-16	STANDING SHOCK 1.1119E+04 7.472TE+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1929E+00 - MOLE FRACTIONS 4.9534E-01 1.8988E-02 4.7601E-01 9.6631E-03 7.4559E-08	REFLECTED SHOCK 1.5551E+04 8.5522E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.0849E+00 7.2321E-01 4.2668E+00
P T RHO H S Z GAME U SPECIE E-A A+A+	MOVING SHOCK 8.9977E+02 4.6046E+01 1.2925E+01 1.9468E+02 6.9588E+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2304E+01 5	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00 - MOLE FRACTIONS 4.7837E-01 4.5078E-02 4.7475E-01 1.6087E-01	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+01 1.6404E+01 2.0176E+00 7.4497E-01 4.0374E+00 5.0437E-01 1.3041E-02 4.6080E-01 2.1787E-02	P T RHO H A S Z GAME U SPECIES E- A + A+++ A++++	MOVING SHOCK 9.9708E+02 4.735IE+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+JO 1.575IF+00 6.9860E+01 2.3513E+01 3.6512E+01 2.6578E+01 3.258E+06 1.2353E+15 1.0936E+31	STANDING SHOCK 1.1119E+04 7.472TE+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1928E+00 - MOLE FRACTIONS 4.9534E-01 1.8988E-02 4.7601E-01 9.6631E-03 7.4569E-08 6.8148E-17	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.084 9E+00 7.2321E-01 4.2668E+00 5.2037 F-01 8.3402E-03 4.222E-01 4.9067 E-02 5.2876E-06 2.0204E-13
P T RHO H A S Z GAME U SPECIE E- A A++ A+++	MOVING SHOCK 8-9977E+02 4-6046E+01 1-2925E+01 1-9468E+02 6-9588E+02 1-5118E+00 6-9563F-01 2-2304E+01 3-3854E-01 3-2292E-01 3-3453E-01 4-5126E-06 2-8841E-16	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00 - MOLE FRACTIONS 4.7837E-01 4.5078E-02 4.7475E-01 1.6087E-03 1.2083E-09	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00 5.0437E-01 1.3041E-02 4.6080E-01 2.1787E-02 6.1126E-07	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A++	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+00 6.9860E-01 2.3513E+01 3.6512E-01 2.6978E-01 3.6510E-01 9.3268E-06 1.2353E-15 1.0936E-31 1.3770E-53	STANDING SHOCK 1.1119E+04 7.472TE+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1929E+00 - MOLE FRACTIONS 4.9534E-01 1.8988E-02 4.7601E-01 9.6631E-03 7.4559E-08	REFLECTED SHOCK 1.5551E+04 8.5522E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.0849E+00 7.2321E-01 4.2668E+00
P T RHO H	MOVING SHOCK 8.9977E+02 4.6046E+01 1.9225E+01 1.9468E+02 6.958BE+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2304E+01 3.3854E-01 3.2292E-01 3.3853E-01 4.5126E-06 2.8841E-16 7.4024E-33 2.0023E-55	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00 - MOLE FRACTIONS 4.7837E-01 4.5078E-02 4.7475E-01 1.4087E-03 1.2083E-09 3.6221E-20 6.7899E-35	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00 5.0437E-01 1.3041E-02 4.6080E-01 2.1787E-02 6.1126E-07 3.5241E-15 5.0851E-27	P T RHO H A S Z GAME U SPECIES E- A + A+++ A++++	MOVING SHOCK 9.9708E+02 4.735IE+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+JO 1.575IF+00 6.9860E+01 2.3513E+01 3.6512E+01 2.6978E+01 3.268E+06 1.2353E+15 1.0936E+31	STANDING SHOCK 1.1119E+04 7.472TE+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1928E+00 - MOLE FRACTIONS 4.9534E-01 1.8988E-02 4.7601E-01 9.6631E-03 7.4569E-08 6.8148E-17	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.084 9E+00 7.2321E-01 4.2668E+00 5.2037 F-01 8.3402E-03 4.222E-01 4.9067 E-02 5.2876E-06 2.0204E-13
P T RHO H A S Z GAME U SPECIE E-A A+A+A+A+A AV AVI	MOVING SHOCK 8-9977E+02 4-6046E+01 1-2925E+01 1-9468E+02 6-958E+00 1-518E+00 6-9563F-01 2-2394E+01 3-3854E-01 3-2292E-01 3-3854E-01 4-5126E-06 2-8841E-16 7-4024E-33 2-0023E-55 2-1357E-84	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.5808E+00 1.7303E-01 3.8110E+00 - MOLE FRACTIONS 4.7837E-01 4.5078E-02 4.7475E-01 1.4087E-03 1.2083E-09 3.622LE-20 6.7899E-35 3.6975E-54	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00 5.0437E-01 1.3041E-02 4.6080E-01 2.1787E-02 6.1126E-07 3.5241E-15 5.0851E-27 9.0329E-43	P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++AV AVI	MOVING SHOCK 9-9708E+02 4-7351E+01 1-3369E+01 2-1514E+02 7-2183E+00 1-4921E+30 1-5751F+00 6-9860E-01 2-3513E+01 	STANDING SHOCK 1.1119E+04 7.472TE+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1928E+00 - MOLE FRACTIONS 4.9534E-01 1.8988E-02 4.7601E-01 9.6631E-03 7.4559E-08 6.8148E-17 9.3728E-30 9.3253E-47	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+01 1.342E+01 1.342E+01 4.2668E+00 5.2037E-01 8.3402E-03 4.222E-01 4.9067E-02 5.2876E-06 2.0204E-13 3.2136E-24 1.0698E-38
P T RHO H	MOVING SHOCK 8.9977E+02 4.6046E+01 1.9225E+01 1.9468E+02 6.958BE+00 1.4564E+00 1.5118E+00 6.9563F-01 2.2304E+01 3.3854E-01 3.2292E-01 3.3853E-01 4.5126E-06 2.8841E-16 7.4024E-33 2.0023E-55	\$TANDING \$HOCK 9.7854E+03 6.7392E+01 7.5743E+01 3.5567E+02 9.9935E+00 1.5808E+00 1.9171E+00 7.7303E-01 3.8110E+00 - MOLE FRACTIONS 4.7837E-01 4.5078E-02 4.7475E-01 1.4087E-03 1.2083E-09 3.6221E-20 6.7899E-35	REFLECTED SHOCK 1.3556E+04 7.9683E+01 8.4321E+01 4.2054E+02 1.0944E+01 1.6404E+00 2.0176E+00 7.4497E-01 4.0374E+00 5.0437E-01 1.3041E-02 4.6080E-01 2.1787E-02 6.1126E-07 3.5241E-15 5.0851E-27	P T RHO H A S Z GAME U SPECIES E- A A++ A+++ A+++ A+++ A+++ A+++ A+++	MOVING SHOCK 9.9708E+02 4.7351E+01 1.3369E+01 2.1514E+02 7.2183E+00 1.4921E+00 6.9860E-01 2.3513E+01 3.6512E-01 2.6978E-01 3.6510E-01 9.3268E-06 1.2353E-15 1.0936E-31 1.3770E-53	STANDING SHOCK 1.1119E+04 7.4727E+01 7.5093E+01 3.9357E+02 1.0680E+01 1.6222E+00 1.9815E+00 7.7037E-01 4.1928E+00 - MOLE FRACTIONS 4.9534E-01 1.8988E-02 4.7601E-01 9.6631E-03 7.4569E-08 6.8148E-17 9.3728E-30	REFLECTED SHOCK 1.5551E+04 8.5532E+01 8.7420E+01 4.6632E+02 1.1342E+01 1.6824E+00 2.084 9E+00 7.2321E-01 4.2668E+00 5.2037E-01 8.3402E-03 4.222E-01 4.9067E-02 5.2876E-06 2.0204E-13 3.2136E-24

P1 =	2-00E+01 N/39-M	, 051= 8.406+0	3 M/SEC .	71 -	3-00E401 W.26-W	11 031- 0.005+(75 M/3EC
•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.0475E+03	1.1824E+34	1.6551E+04	, Р	1.1517E+03	1.3307E+04	1.8604E+04
7 .		7.8143E+01	8.7543E+01	Ť	4.9500E+01	8.3532E+01	9.1518E+01
RHO	4.8036E+01	7.5278E+01	8. 9204E+01	RHO	1.3896E+01	7.6928E+01	9.2723E+01
	1.3564E+01		4.8910E+02	H	2.4773E+02	4.5430E+02	5.3654E+02
H	2.2575E+02	4.1329E+02		Ä	7.6435E+00	1.12026+01	1.19786+01
A	7.3545E+00	1.0853E+01	1.1549E+01	ŝ	1.54736+00	1.6817E+00	1.7434E+00
S	1.5103E+00	1.6421E+00	1.7025E+00	ž			
Z	1.6076E+00	2.0100E+00	2.1194E+00	GAME .	1.6743E+00	2.0708E+00	2.1923E+00
GAME	7.0040E-01	7.4991E-01	7.1886E-01	U	7.0490E-01	7.2549E-01	7.1507E-01
U .	2.4115E+01	4.3473E+00	4.3234E+00	U	2.5311E+01	4.5756E+00	4.4604E+00
SPEC IE	s	- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
E-	3.7797E-01	5.0249E-01	5.2817E-01	. E-	4.0275E-01	5.1710E-01	5.4387E-01
Ā	2.4407E-01	1.3481E-02	7.1415E-03	· А	1.9453E-01	8.4802E-03	5.4927E-03
A+	3.7795E-01	4.6557E-01	4.0123E-01	Δ+	4.0270E-01	4.3176E-01	3.5745E-01
A++	1.1365E-05	1.8461E-02	6.3454E-02	A++	2.1660E-05	4.2665E-02	9.3156E-02
A+++	2.5896E-15	3.40406-07	1.0930E-05	A+++	1.2137E-14	3.4140E-06	3.4637E-05
A++++	4.2546E-31	1.3662E-15	8.1038E-13	4++++	7.43506~30	8.2123E-14	7.6643E-12
AV	1.0855E-52	1.05026-27	2.9949E-23	AV .	1.3949E-51	7.0414E-25	1.14776-21
AVI	1.0240E-80	8.3541F-44	2.78235-37	IVA	1.6598E-79	1.0735E-39	5.9408E-35
AVII	0.	6.36408-66	1.4631E-56	AVII'	j.	4.7107E-60	3.2539E-53
AVIII '	0.	0.	3.4674E-8C	IIIVA	j.	6.3720E-85	1.18026-75
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						•	
				•			
			•		•		
P1 =	5.00E+01 N/SQ-N	. US1= 8.60E+0	3 M/SEC	P1 =	5.00E+01 N/SU-N	, US1= 9.00E+0	3 M/SEC
_	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	р .		STANDING SHOCK	REFLECTED SHOCK
Ρ.	1.0990E+03	1.2553E+04	1.7573E+04	· ,	1.2055E+03	1.4075E+04	1.9637E+04
T .	4.87508+01	8.1026E+31	8.9598E+01		5.0298E+01	8.5664E+01	9.3344E+01
RHD	1.3740E+01	7.59655+01	9.0996E+01	RHO	1.4029E+01	7.8153E+01	9.4333E+01
H	2.3661E+02	4.3353E+02	5.1261F+02	H .	2.5910E+02	4.7556E+02	5-6093E+02
A	7.4959E+00	1.1019E+01	1.1762E+01	A	7.7986E+00	1.1388E+01	1.2196E+01
S	1.5287E+00	1.6617E+00	1.7229E+00	S	1.5661E+00	1.7007E+00	1.76400+00
Z	1.6407E+00	· 2.0394E+00	2.15546+00	2	1.7083E+00	2.1023E+00	2.2302E+00
GAME	7.0247E-01	7.3483E-01	7.1636E-01	GAME	7.0780E-01	7.2017E-01	7.1456E-01
U	2.47145+01	4.4768E+00	4.3942E+00	U ,	2.5905E+01	4.6594E+00	4.5242E+00
SPEC 18		- MOLE FRACTIONS		SPEC IE	S	- MOLE FRACTIONS	
			•				
E-	3.9052E-01	5.0965E-01	5.3605E-01	E-	4.1464E-01	5.2433E-01	5.5160E-01
A	2.1897E-01	1.0412E-02	6.2246E-03	A .	1.7076E-01	7.2206E-03	4-8812E-03
A+	3.9049E-01	4.5023E-01	3.7943E-01	Δ+	4.1457E-01	4.1258E-01	3.3549E-01
A++	1.5615E-05	2.9711E-02	7.8281E-02	A++	3.04436-05	5.5865E-02	1.0797E-01
A+++	5.53428-15	1.3007E-06	2.0282E-05	A+++	2.7537E-14	7.19435-06	5.5729E-05
4+++	1.7289E-30	1.3411E-14	2.6851E-12	A++++	3.42098-29	3.38646-13	1.9682E-11
AV	9.3781E-52	3.9190E-26	2.0848E-22	AV	1.09826-49	6.8218E-24	5.3761E-21
AVI	3.98416-80	1.5976E-41	4.8300E-36	AVI	1.0734E-76	2.95608-38	5.8476E-34
JIVA) .	1.1509E-62	8.9175E-55	IIVA	. 0.	.5.3680E-58	8.9193E-52
AVILI	Λ.	1 83 90 5 - 98	0 35555_70	AVITI	A -	3.7674F+R2	1 . 0954 6-73

p, = 50 N/ m²

P1 = 5.00E+01 N/SQ-M, US1= 9.20E+03 N/SEC	P1 = 5.00E+01 N/SQ-M, US1= 9.60E+03 M/SEC
	NO ATEC CHOCK CTANOTHS CHOCK DESCRIPTION CHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.3732E+03 1.6380E+04 2.2670E+04
P 1.2604E+03 1.4851E+04 2.0667E+04 T 5.1157E+01 8.7636E+01 9.5099E+01	
RHO 1.4138E+01 7.9348E+01 9.5794E+01	
H 2.7071E+02 4.9729E+02 5.8576E+02 A 7.9632E+00 1.1584E+01 1.2417E+01	
	A 8.3334E+00 1.1982E+01 1.2869E+01
\$ 1.5850E+0C 1.7202E+00 1.7846E+00	\$ 1.6230E+00 1.7598E+00 1.8268E+00 2 1.8116E+00 2.2053E+00 2.3482E+00
Z 1.7427E+00 2.1357E+00 2.2686E+00	
GAME 7.1132E-01 7.1692E-01 7.1462E-01 U 2.6497E+01 4.7287E+00 4.5867E+00	GAME 7.2138E-01 7.1408E-01 7.1595E-01 U 2.7668E+01 4.8526E+00 4.7111E+00
Ú 2.6497E+01 4.7287E+00 4.5867E+00	0 . 2.70000000 4.00200000 4.7111000
	•
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
	5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
E- 4.2616E-01 5.3176E-01 5.5920E-01	E- 4.4800E-01 5.4655E-01 5.7413E-01
A 1.4772E-01 6.2604E-03 4.3552E-03	A 1.0410E-01 4.8820E-03 3.4606E-03
A+ 4.2607E-01 3.9221E-01 3.1377E-01	A+ 4.4780E-01 3.5064E-01 2.7086E-01
A++ 4.3565E-05 6.9755E-02 1.2259E-01	A++ 9.6761E-05 9.7897E-02 1.5136E-01
A+++ 6.5452E-14 1.3603E-05 8.5624E-05	A+++ 4.5232E-13 3.8135E-05 1.8481E-04
A++++ 1.7292E-28 1.1518E-12 4.6531E-11	A++++ 6.3253E-27 8.6145E-12 2.2225E-10
AV 1.5639E-48 4.9126E-23 2.2094E-20	AV 5.0913E-46 1.2879E-21 2.9233E-19
AVI 1.5336E-74 5.3491E-37 4.7409E-33	AVI 9.6421E-71 6.5311E-35 2.1934E-31
AVII 0. 3.4278E-56 1.8239E-50	AVII 0. 3.4005E-53 4.6276E-48
AVIII 0. 1.0525E-79 6.5530E-72	AVIII). 1.1864E-75 · 1.1971E-68
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	•
P1 = 5.005+01 N/SQ-M, US1= 9.40E+03 M/SEC	P1 = 5.00E+01 N/SQ-M, US1= 9.80E+03 M/SEC
P1 = 5.005+01 N/SQ-M, US1= 9.40E+03 M/SEC	P1 = 5.00E+01 N/SQ-M, US1= 9.80E+03 M/SEC
. MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.3163E+03 1.5623E+04 2.1682E+04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.3163E+03 1.5623E+04 2.1682E+04 T 5.2095E+01 8.9460E+01 9.6819E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.3163E+03 1.5623E+04 2.1682E+04 T 5.2095E+01 8.9460E+01 9.6819E+01 RHO 1.4218E+01 8.0475E+01 9.7025E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8684E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.3163E+03 1.5623E+04 2.1682E+04 T 5.2095E+01 8.9460E+01 9.8819E+01 RHO 1.4218E+01 8.9475E+01 9.7025E+01 H 2.3258E+02 5.1945E+02 6.1105E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8684E+01 H 3.0707E+02 5.6496E+02 6.6289E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8684E+01 H 3.0707E+02 5.6496E+02 6.6289E+02 A 8.5495E+00 1.2185E+01 1.3099E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.3163E+03 1.5623E+04 2.1682E+04 T 5.2095E+01 9.6819E+01 RHO 1.4218E+01 8.9475E+01 9.7025E+01 H 2.3258E+02 5.1945E+02 6.1105E+02 A 8.1401E+00 1.1782E+01 1.2642E+01 S 1.6040E+00 1.7399E+00 1.8056E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8694E+01 H 3.7707E+02 5.6496E+02 6.6289E+02 A 8.5495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.3163E+03 1.5623E+04 2.1682E+04 T 5.2095E+01 8.9460E+01 9.6819E+01 9.7025E+01 9.7025E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8684E+01 H 3.0707E+02 5.6496E+02 6.6289E+02 A 8.5495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 2.18457E+00 2.2413E+00 2.3887E+00 2.38
MDVING SHOCK STANDING SHDCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHO 1.4270E+01 8.2242E+01 9.8684E+01 H 3.7707E+02 5.6496E+02 6.6289E+02 A 8.5449E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E-01 7.1373E-01 7.1709E-01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.3163E+03 1.5623E+04 2.1682E+04 T 5.2095E+01 8.9460E+01 9.6819E+01 9.7025E+01 9.7025E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8684E+01 H 3.0707E+02 5.6496E+02 6.6289E+02 A 8.5495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 2.18457E+00 2.2413E+00 2.3887E+00 2.38
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8684E+01 H 3.707E+02 5.6496E+02 6.6289E+02 A 8.54495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E-01 7.1373E-01 7.1709E-01 U 2.8245E+01 4.9091E+00 4.7737E+00
MDVING SHOCK STANDING SHDCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHO 1.4270E+01 8.2242E+01 9.8684E+01 H 3.7707E+02 5.6496E+02 6.6289E+02 A 8.5495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E-01 7.1373E-01 7.1709E-01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310 E+03 1.7107 E+04 2.3612 E+04 T 5.4331 E+01 9.2806 E+01 1.0016 E+02 RHD 1.4270 E+01 8.2242 E+01 9.868 E+01 H 3.7707 E+02 5.6496 E+02 6.6289 E+02 A 8.5495 E+00 1.285 E+01 1.3099 E+01 S 1.6421 E+00 1.779 E+00 1.8481 E+00 2.2413 E+00 2.3887 E+00 GAME 7.2891 E-01 7.1373 E-01 7.1709 E-01 U 2.8245 E+01 4.9091 E+00 4.773 TE+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8694E+01 H 3.7707E+02 5.6496E+02 6.6289E+02 A 8.5495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E-01 7.1373E-01 7.1709E-01 U 2.8245E+01 4.9091E+00 4.7737E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.3163E+03 1.5623E+04 2.1682E+04 T 5.2095E+01 8.9460E+01 9.6819E+01 9.6819E+01 9.7025E+01 9.7025E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8694E+01 H 3.707E+02 5.6496E+02 6.6289E+02 A 8.5495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E-01 7.1373E-01 7.1709E-01 U 2.8245E+01 4.9091E+00 4.7737E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8684E+01 H 3.7707E+02 5.6496E+02 6.6289E+02 A 8.5495E+00 1.285E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E-01 7.1373E-01 7.1709E-01 U 2.8245E+01 4.9091E+00 4.7737E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8694E+01 H 3.7707E+02 5.6496E+02 6.6289E+02 A 6.5495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E-01 7.1373E-01 7.1709E-01 U 2.8245E+01 4.9091E+00 4.7737E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310 E+03 1.7107 E+04 2.3612 E+04 T 5.4331 E+01 9.2006 E+01 1.0016 E+02 RHD 1.4270 E+01 8.2242 E+01 9.868 E+01 H 3.7707 E+02 5.6496 E+02 6.6289 E+02 A 8.5495 E+00 1.2185 E+01 1.3099 E+01 S 1.6421 E+00 1.7798 E+00 2.3887 E+00 2.413 E+00 2.3887 E+00 2.413 E+00 2.3887 E+00 U 2.8245 E+01 4.9091 E+00 4.773 TE+00 C C C C C C C C C
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8684E+01 H 3.7707E+02 5.6496E+02 6.6289E+02 A 8.5495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E+01 7.1373E+01 7.1709E+01 U 2.8245E+01 4.9091E+00 4.7737E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8694E+01 H 3.0707E+02 5.6496E+02 6.6289E+02 A 6.5495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E-01 7.1373E-01 7.1709E+01 U 2.8245E+01 4.9091E+00 4.7737E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHO 1.4270E+01 8.2242E+01 9.8684E+01 H 3.7707E+02 5.6496E+02 6.6289E+02 A 8.5495E+00 1.285E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E-01 7.1373E-01 7.1709E-01 U 2.8245E+01 4.9091E+00 4.7737E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4310E+03 1.7107E+04 2.3612E+04 T 5.4331E+01 9.2806E+01 1.0016E+02 RHD 1.4270E+01 8.2242E+01 9.8694E+01 H 3.0707E+02 5.6496E+02 6.6289E+02 A 6.5495E+00 1.2185E+01 1.3099E+01 S 1.6421E+00 1.7798E+00 1.8481E+00 Z 1.8457E+00 2.2413E+00 2.3887E+00 GAME 7.2891E-01 7.1373E-01 7.1709E+01 U 2.8245E+01 4.9091E+00 4.7737E+00 SPECIES

	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		- MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	1.4896E+03	1.7784E+04	2.4479E+04	P	1.6085E+03	1.8866E+04	2.5827E+04
Ť	5.5728E+01	9.4366E+01	1.0181E+02	T	5.9546E+01	9.7288E+01	1.0504E+02
RHO	1.4225E+01	8.2729E+01	9.8956E+01	RHO	1.3924E+01	8.2415E+01	9.7855E+01
н	3.1968E+02	5.8823E+02	6.8936E+02	H	3.4561E+02	6.3544E+02	7.4297E+02
Ä	8.7986E+00	1.2388E+01	1.3332E+01	Ä	9.4504E+00	- 1.2793E+01	1.3805E+01
Š			1.8698E+00	ŝ	1.6985E+00	1.8419E+00	1.9141E+00
	1.6611E+30	1.8002E+00		ž	1.93992+00	2.3530E+00	2.5127E+00
2	1.8790E+00	2.2780E+00	2.4298E+00	GAME	7.73156-01	7.1500E-01	7. 220 3E ~01
GAME	7.3930E-01	7.1383E-01	7.1850E-01	U	2.9919E+01	5.0631E+00	4.9630E+00
U ,	2.8815E+01	4.9630E+00	4.8368E+00	U	2. 77176 101	3.00315400	4.70306700
•					_		
SPECIES		- MULE FRACTIONS		· SPECIE	s	- MOLE FRACTIONS	
E	4.6781E-01	5.6103E-01	5.8844 E-01	E-	4.8452E-01	5.7500E-01	6.0202E-01
Ā	6.4642E-02	3.8803E-03	2.7130E-03	A	3.1938E-02	3.37198-03	2.06508-03
. Ä+	4.6729E-01	3.0925E-01	2.2961E-01	A+	4.8257E-01	2.6903E-01	1.9049E-01
. A++		1.25768-01	1.7887E-01	A++	7.7614E-04	1.5272E-01	2.0474E-01
	2.5803E-04			A+++	1.22955-10	1.7660E-04	6.8502E-04
A+++	4.8396E-12	8.7409E-05	3.6590E-04	A++++	1.8217E-22	1.8527E-10	3.3983E-09
A++++	4.8177E-25	4.4828E-11	9-1259E-10	AV	4.8909E-39	1.9656E-19	2.7295E-17
AV	4.2141E-43	1.9133E-20	3-0525E-18				
AVI	9.7233E-67	3.4923E-33	7.1919E-30	I VA	8.7129E-61	1.0967E-31	1.8800E-28
IIVA	0.	1.0350E-50	7.1301E-46	AVII).	1.4708E-48	7.9453E-44
AVILI	0.	2.69778-72	1 • 1 0 0 1 E - 6 5	IIIVA	0.	2.1982E-69	6.6581E-63
01 a s	.005+01 N/SQ-M	, US1= 1.02E+0	4 M/SEC	Pl =	5.00E+01 N/SQ-N	, US1= 1.06E+0	
r 3.	.002+01 (6)34-4	. 031- 1.022.00	H H/320	· •			
•	MOVING SHOCK						
P		STANDING SHOCK	REFLECTED SHOCK		MUVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ť		STANDING SHOCK	REFLECTED SHOCK	Р	MUVING SHOCK 1.6683E+03	STANDING SHOCK 1.9223E+04	REFLECTED SHOCK 2.6261E+04
	1.5488E+03	1.8382E+04	2.5233E+04	P T			
	1.5488E+03 5.7425E+01	1.8382E+04 9.5860E+01	2.5233E+04 1.0343E+02		1.6683E+03 6.2185E+01	1.9223E+04 9.8657E+01	2.6261E+04 1.0666E+02
RHO .	1.5488E+03 5.7425E+01 1.4115E+01	1.8382E+04 9.5860E+01 8.2822E+01	2.5233E+04 1.0343E+02 9.8719E+01	T	1.6683E+03 6.2185E+01 1.3652E+01	1.9223E+04 9.8657E+01 8.1496E+01	2.6261E+04 1.0666E+02 9.6366E+01
н	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02	1.8382E+04 9.5860E+01 8.2822E+01 6.1175E+02	2.5233E+04 1.0343E+02 9.8719E+01 7.1609E+02	T RHO	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02	2.6261E+04 1.0666E+02 9.6366E+01 7.7045E+02
H ·	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00	1.8382E+04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01	2.5233E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01	T RHO H A	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01	2.6261E+04 1.0666E+02 9.6366E+01 7.7045E+02 1.4048E+01
H A S	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.6799E+00	1.8382E+04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+00	2.5233E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00	T RHO H A S	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00	2.6261E+04 1.0666E+02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00
H A S Z	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.6799E+00 1.9108E+00	1.8382E+04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+00 2.3153E+00	2.5233E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00	T RHO H A S . Z	1.6683E+03 6.2185E+01 1.3652E+01 3.5692E+02 9.8244E+00 1.7166E+00 1.9651E+00	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00	2.6261E+04 1.0666E+02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00
H A S Z GAME	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.67.99E+00 1.9108E+00 7.5389E-01	1.8382E+94 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+D0 2.3153E+00 7.1428E-01	2.523E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01	T RHO H A S S Z GAME	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 1.9651E+00 7.8985E-01	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1594E-01	2.6261E+04 1.0666E+02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00 7.2416E-01
H A S Z	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.6799E+00 1.9108E+00	1.8382E+04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+00 2.3153E+00	2.5233E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00	T RHO H A S . Z	1.6683E+03 6.2185E+01 1.3652E+01 3.5692E+02 9.8244E+00 1.7166E+00 1.9651E+00	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00	2.6261E+04 1.0666E+02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00
H A S Z GAME	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.67.99E+00 1.9108E+00 7.5389E-01 2.9374E+01	1.8382E+94 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+D0 2.3153E+00 7.1428E-01	2.523E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.891BE+00 2.4712E+00 7.2015E-01 4.9001E+00	T RHO H A S S Z GAME	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 1.9651E+00 7.8985E-01 3.0447E+01	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1594E-01	2.6261E-04 1.0666F-02 9.6366E+01 7.7045E+02 1.4048F+01 1.9373E+00 2.5550F+00 7.2416E-01 5.0509E+00
H A S Z GAME U	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.6799E+00 1.9198E+00 7.5389E-01 2.9374E+01	1.8382E-04 9.5860E+01 8.282ZE+01 6.1175E+02 1.2591E+01 1.8209E+00 2.3153E+00 7.1428E-01 5.0145E+00	2.5233E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01 4.9001E+00	T RHD H A S Z GAME U	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 1.9651E+00 7.8985E-01 3.0447E+01	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1594E-01 5.1077E+00	2.6261E+04 1.0666E+02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00 7.2416E-01 5.0509E+00
H A S Z GAME U SPECIES	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.67.99E+00 1.9108E+00 7.5389E-01 2.9374E+01	1.8382E+04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+30 2.3153E+00 7.1428E+01 5.0145E+00	2.5235E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01 4.9001E+00	T RHO H A S Z GAME U SPECIE	1.6683E+03 6.2185E+01 1.3652E+01 3.5692E+02 9.8244E+00 1.7166E+00 1.9651E+00 7.8985E-01 3.0447E+01	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1594E-01 5.1077E+00 - MOLE FRACTIONS 5.8175E+01	2.6261E-04 1.0666F-02 9.6366E-01 7.7045E-02 1.4048E-01 1.9373E-00 2.5550E-00 7.2416E-01 5.0509E+00
H A S Z GAME U SPECIES	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.67.99E+00 7.5389E-01 2.9374E+01	1.8382E-04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+00 7.1428E-01 5.0145E+00	2.5233E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E+01 4.9001E+C0	T RHO H A S Z GAME U SPECIE E - A	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 1.9651E+00 7.8985E-01 3.0447E+01 S	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1594E-01 5.1077E+00 - MOLE FRACTIONS 5.8175E-01 2.7158E=03	2.6261E+04 1.0666E+02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00 7.2416E-01 5.0509E+00
H A S Z GAME U SPECIES E- A A+	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.3952E+00 1.67.99E+30 1.9108E+00 7.5389E-01 2.9374E+01	1.8382E-04 9.5860E+01 8.282ZE+01 6.1175E+02 1.2591E+01 1.2209E+00 2.3153E+00 7.1428E-01 5.0145E+00	2.523E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01 4.9001E+00	T RHD H A S Z GAME U SPECIE E- A A+	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 1.9651E+00 7.8985E-01 3.0447E+01 S	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1594E-01 5.1077E+00 - MOLE FRACTIONS 5.8175E+01 2.7158E=03 2.4956E+01	2.6261E-04 1.0666E-02 9.6366E+01 7.7045E+02 1.4048F+01 1.9373E+00 2.5550F+00 7.2416E-01 5.0509E+00
HAAS Z GAME U SPECIES E-AA+++	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.67.99E+00 7.5389E-01 2.9374E+01 4.7666E-01 4.7151E-02 4.7571E-01 4.7417E-04	1.8382E+04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+70 2.3153E+00 7.1428E-01 5.0145E+00 MOLE FRACTIONS 5.6809E-01 3.4582E-03 2.8894E-01 1.3939E-01	2.5235E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01 4.9001E+00 5.9534E-01 2.3780E-03 2.0974E-01 1.9204E-01	T RHO H A S S Z GAME U SPECIE E A A + A + +	1.6683E+03 6.2185E+01 1.3652E+01 3.5692E+02 9.8244E+00 1.7166E+00 7.8965E-01 3.0447E+01 S	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1594E-01 5.1077E+00 - MOLE FRACTIONS 5.8175E+01 2.7158E=03 2.4956E+01 1.6573E+01	2.6261E-04 1.0666E+02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00 7.2416E-01 5.0509E+00
H A S Z GAME U SPECIES E- A A+	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.3952E+00 1.67.99E+30 1.9108E+00 7.5389E-01 2.9374E+01	1.8382E-04 9.5860E+01 8.282ZE+01 6.1175E+02 1.2591E+01 1.2209E+00 2.3153E+00 7.1428E-01 5.0145E+00	2.523E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01 4.9001E+00	T RHO H A S Z GAME U SPECIE E - A A + A + A + + A + + A + + + + A + + + A + + + A + + + A + + + A + + + A + + + A + + + A + + + A + + + A + + + A + + + A + + + A + + + A + + A + + + A + + A + + + A + A + + A	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 1.9651E+00 7.8985E-01 3.0447E+01 5 	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1596E-01 5.1077E+00 MOLE FRACTIONS 5.8175E-01 2.7158E-03 2.4956E+01 1.6573E-01 2.426LE-04	2.6261E+04 1.0666E+02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00 7.2416E-01 5.0509E+00 6.0860E-01 1.7693E-03 1.7158E-01 2.1712E-01 9.2858E-04
HAAS Z GAME U SPECIES E-AA+++	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.67.99E+00 7.5389E-01 2.9374E+01 4.7666E-01 4.7151E-02 4.7571E-01 4.7417E-04	1.8382E+04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+70 2.3153E+00 7.1428E-01 5.0145E+00 MOLE FRACTIONS 5.6809E-01 3.4582E-03 2.8894E-01 1.3939E-01	2.5235E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01 4.9001E+00 5.9534E-01 2.3780E-03 2.0974E-01 1.9204E-01	T RHD H A S Z GAME U SPECIE E- A A+ A++ A+++ A+++	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 1.9651E+00 7.8985E-01 3.0447E+01 S 4.9111E-01 2.0028E-02 4.8660E-01 2.2568E-03 9.5105E-10 7.7590E-21	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1594E-01 5.1077E+00 - MOLE FRACTIONS 5.8175E-01 2.7158E-03 2.4956E+01 1.6573E-01 2.4261E-04 3.5344E-10	2.6261E-04 1.0666F-02 9.6366E+01 7.7045E+02 1.4048F+01 1.9373F+00 2.5550F+00 7.2416E-01 5.0509E+00 6.0860E-01 1.7693E-03 1.7158E-01 9.2858E-04 6.4675E-09
H A S Z GAME U SPECIES E-A A+++ A+++	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.67.99E+00 1.9108E+00 7.5389E-01 2.9374E+01 4.7666E-01 4.7151E-02 4.7571E-01 4.7417E-04 2.1258E-11	1.8382E-04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+00 7.1428E-01 5.0145E+00	2.5233E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01 4.9001E+C0 5.9534E-01 2.3780F-03 2.0974E-01 1.9204E-01 5.0358E-04	T RHO H A S S Z GAME U SPECIE E A A + A + + + A + + + + A + + + A V	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 7.8985E-01 3.0447E+01 S 4.9111E-01 2.0028E-02 4.8660E-01 2.2568E-03 9.5105E-10 7.7590E-21 1.8589E-36	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1594E-01 5.1077E+00 - MOLE FRACTIONS 5.8175E+01 2.7158E+03 2.4956E+01 1.6573E+01 2.4261E+04 3.5344E+10 5.6884E+10	2.6261E+04 1.0666E+02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00 7.2416E-01 5.0509E+00
H A S S Z G AME U S S S S S S S S S S S S S S S S S S	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.67.99E+00 7.5389E-01 2.9374E+01 4.7666E-01 4.7151E-02 4.7571E-01 4.7417E-04 2.1258E-11 7.3330E-24	1.8382E-04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.b209E+00 7.1428E-01 5.0145E+00 4.6809E-01 3.4582E-03 2.8894E-01 1.3939E-01 1.2586E-04 9.3353E-11 6.3719E-21	2.523E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01 4.9001E+00 	T RHO H A S Z GAME U SPECIE E - A A + A + + + A + + + + A V A V I	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 1.9651E+00 7.8985E-01 3.0447E+01 S 4.9111E-01 2.0028E-02 4.8860E-01 2.2568E-03 9.5105E-10 7.7590E-21 1.8589E-36 5.8217E-57	1.923E-04 9.8657E-01 8.1496E-01 6.5923E-02 1.2995E-01 1.8634E-00 2.3909E-00 7.1594E-01 5.1077E-00 - MOLE FRACTIONS 5.8175E-01 2.7158E-03 2.4956E-01 1.6573E-01 2.426LE-04 3.5346E-10 5.6884E-19 5.2790E-31	2.6261E-04 1.0666E-02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00 7.2416E-01 5.0509E+00
H A S Z GAME U SPECIES E-A A+++++ A++++ A++++ A++++ A++++ A+++++ A++++++	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.67.99E+00 7.5389E-01 2.9374E+01 4.7666E-01 4.7151E-02 4.7571E-01 4.7417E-04 2.1258E-11 7.3830E-24 3.2982E-41	1.8382E-04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+00 2.3153E+00 7.1428E-01 5.0145E+00	2.5235E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01 4.9001E+00 5.9534E-01 2.3780E-03 2.0974E-01 1.9204E-01 5.0358E-04 1.7793E-09 9.2823E-18	T RHO H A S S Z GAME U SPEC !E E- A A++++++++++++++++++++++++++++++++++	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 7.8985E-01 3.0447E+01 S 4.9111E-01 2.0028E-02 4.8660E-01 2.2568E-03 9.5105E-10 7.7590E-21 1.8589E-36	1.9223E+04 9.8657E+01 8.1496E+01 6.5923E+02 1.2995E+01 1.8634E+00 2.3909E+00 7.1594E-01 5.1077E+00 - MOLE FRACTIONS 5.8175E+01 2.7158E=03 2.4956E+01 1.6573E=01 2.4261E-04 3.5344E=10 5.6884E-19 5.2790E-31 1.4070E-47	2.6261E-04 1.0666F-02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00 7.2416E-01 5.0509E+00 6.0860E-01 1.7693E-03 1.7158E-01 2.1712E-01 9.2858E-04 6.4675E-09 7.9871E-17 9.3112E-28
H A S Z GAME U SPECIES E-A A++++ A++++ AV	1.5488E+03 5.7425E+01 1.4115E+01 3.3253E+02 9.0952E+00 1.67.99E+00 7.5389E-01 2.9374E+01 	1.8382E-04 9.5860E+01 8.2822E+01 6.1175E+02 1.2591E+01 1.8209E+00 2.3153E+00 7.1428E-01 5.0145E+00	2.523E+04 1.0343E+02 9.8719E+01 7.1609E+02 1.3567E+01 1.8918E+00 2.4712E+00 7.2015E-01 4.9001E+00 	T RHO H A S Z GAME U SPECIE E - A A + A + + + A + + + + A V A V I	1.6683E+03 6.2185E+01 1.3652E+01 3.5892E+02 9.8244E+00 1.7166E+00 1.9651E+00 7.8985E-01 3.0447E+01 S 4.9111E-01 2.0028E-02 4.8860E-01 2.2568E-03 9.5105E-10 7.7590E-21 1.8589E-36 5.8217E-57	1.923E-04 9.8657E-01 8.1496E-01 6.5923E-02 1.2995E-01 1.8634E-00 2.3909E-00 7.1594E-01 5.1077E-00 - MOLE FRACTIONS 5.8175E-01 2.7158E-03 2.4956E-01 1.6573E-01 2.426LE-04 3.5346E-10 5.6884E-19 5.2790E-31	2.6261E-04 1.0666E-02 9.6366E+01 7.7045E+02 1.4048E+01 1.9373E+00 2.5550E+00 7.2416E-01 5.0509E+00 1.7693E-03 1.7158E-01 2.1712E-01 9.2858E-04 6.4675E-09 7.9871E-17

p₁ = 50 N/ m²

.P1 = 5.00E+01 N/SQ-M. US1= 1.08E+04 M/SEC

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	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOUTHE CHOCK	£ ₹ 4 \$ 10 \$ 10 \$ 10 \$ 10 \$ 10 \$ 10 \$ 10 \$	
P	1.7289E+03	1.9531E+04	2.6608E+04	Ρ.	MOVING SHUCK	STANDING SHUCK	REFLECTED SHOCK
T	6.5143E+01	1.0001E+02	1.0828E+02	<u>, </u>	1.9560E+03	2.16315+04	2.9328E+04
RHD		8.0392E+01	9.4651E+01		7.2909E+01	1.0546E+02	1.1544E+02
	1.3362E+01			RHO	1.3031E+01	7.9864E+01	9.2568E+01
H	3.7246E+02	6.8328E+02	7.9756E+02	н	4.2205E+02	7.7338E+02	9.0131E+02
A	1.0075E+01	1.3199E+01	1.4291E+01	A -	1.0404E+01	1.3999E+01	1.5281E+01
S	1.7342E+00	1.8850E+00	1 - 9600E +00	S	- 1.7927E+00	1.9588E+00	2.0386E+00
2	1.9862E+00	2.4292E+00	2.5962E+00	Z	2.0588E+00	2.5683E+00	2.7446E+00
GAME	7.8455E-QL	7.1712E-01	7.2650E-01	GAME	7.2118E-01	7.2359E-01	7.3698E-01
U	3.0968E+01	5.15555+00	5.1060E+00	U	3.2907E+01	5.3776E+00	5.3922E+00
						7171102.00	3.37222400
SPECIES		- MOLE FRACTIONS		SPECIE:	5	- MOLE FRACTIONS	
•	•					HOLE TRACTIONS	,
E-	4.9653E-01	5.8835E-01	6.1483E-01	£-	5.1428E-01	4 10435 01	
Ā	1.22736-02	2.3913E-03	1.5056E-03	· Ā	4.1211E-03	6.1063E-01	6.3565E-01
Ä+	4.8588E-01	2.3051E-01	1.5375E-01	Ã+		1.4982E-03	7-8055E-04
A++			2.2867E-01		4.4891E-01	1.6604E-01	9.5244E-02
	5.3244E-03	1.7842E-01		A++	3.2688E-02	2.2089E-01	2.6457E-01
4+++	7.7890E-09	3.2859E-04	1.2452E-03	A+++	7.57258-07	9.3475E-04	3.7537E-03
A++++	3.5954E-19	6.5822E-10	1.2089E-08	. A++++	l.6610E-15	6.0119E-09	1.3755E-07
AV	7.43355-34	1.5864E-18	2-2709E-16	AV	4.4408E-28	6.4127E-17	1.3953E-14
AVI	3.0151E-53	2.4099E-30	4.4091E-27	AVI	6.7842E-45	6.0187E-28	
IIVA	3.8071E-80	1.2489E-46	7.4937E-42	AVII	2.9946E-68		2.12688-24
AVILI	0.	8.9820E-67	3.1832E-60	IIIVA		3.6430E-43	5.7024E-38
		21,050	3010322 02	~****	o	4.5306E-62	5.9663E-55
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•							
P1 = 5	-00E+01 N/SQ-M	, US1= 1.10E+0	M/SEC	P1 = 5	.00E+01 N/SQ-M	US1= 1.20E+0	4 M/SEC
•							
			4				
P	MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
				P ·		STANDING SHOCK 2.3851E+04.	3.2335E+04
	1.7911E+03	1.9946E+04	2.7116E+04		2.1317E+03		
- T	1.7911E+03 6.7899E+01	1.9946E+04 1.0143E+02	2.7116E+04 1.1007E+02	Ţ	2.1317E+03 7.6363E+01	2.3851E+04. 1.1015E+02	3.2335E+04 1.2209E+02
r T RHO	1.7911E+03 6.7899E+01 1.3152E+01	1.9946E+04 1.0143E+02 7.9671E+01	2.7116E+04 1.1007E+02 9.3368E+01	T RHO	2.1317E+03 7.6363E+01 1.3176E+01	2.3851E+04 1.1015E+02 8.1095E+01	3.2335E+04 1.2209E+02 9.2989E+01
rho H	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02	2.7116E+04 1.1007E+02 9.3368E+01 8.2576E+02	T RHO H	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02	2.3851E+04. 1.1015E+02 8.1095E+01 8.4284E+02	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02
T RHO H	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01	2.7116E+04 1.1097E+02 9.3368E+01 8.2576E+02 1.4552E+01	T RHO H - A	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01	2.3851E+04 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01
T RHD H A- S	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00	2.7116E+04 1.1037E+02 9.336E+01 8.2576E+02 1.4552E+01 1.9829E+00	T RHO H A S	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00	2.3851E+04 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00
T RHO H A S Z	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00	2.7116E+04 1.1097E+02 9.3368E+01 8.2576E+02 1.4552E+01	T RHO H A S Z	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00	2.3851E+04 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00
T RHD H A- S	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00	2.7116E+04 1.1037E+02 9.336E+01 8.2576E+02 1.4552E+01 1.9829E+00	T RHO H A S Z Game	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E-01	2.3851E+04. 1.1015E+02 8.1095E+91 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E-01	3.2335E+04 1.2209E+02 9.2989E+01 9.6269E+02 1.6071E+01 2.0935E+00 7.4279E-01
T RHO H A S Z	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+03	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00	2.7[16E+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.982 %+00 2.6385E+00	T RHO H A S Z	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00	2.3851E+04 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00
T RHO H A S Z GAME	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+03 7.6062E-01	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E+01	2.7116E+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.982%E+00 2.6385E+00 7.2919E-01	T RHO H A S Z Game	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E-01	2.3851E+04. 1.1015E+02 8.1095E+91 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E-01	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00 7.4279E-01
T RHO H A S Z GAME	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+03 7.6062E-01	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E+01	2.7116E+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.982%E+00 2.6385E+00 7.2919E-01	T RHO H A S Z Game	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E-01	2.3851E+04. 1.1015E+02 8.1095E+91 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E-01	3.2335E+04 1.2209E+02 9.2989E+01 9.6269E+02 1.6071E+01 2.0935E+00 7.4279E-01
T RHO H A S Z GAME U	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+03 7.6062E-01 3.1501E+01	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E-01 5.2063E+00	2.7116 ± 04 1.10.7E ± 02 9.336 8E ± 01 8.2576 ± 02 1.455 2E ± 01 1.982 9E ± 00 2.638 5E ± 00 7.291 9E = 01 5.176 8E ± 00	T RHO H A S Z Game U	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E-01 3.4369E+01	2.3851E+04 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E-01 5.5925E+00	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00 7.4279E-01 5.6485E+00
T RHO H A S Z GAME	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+03 7.6062E-01 3.1501E+01	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E+01	2.7116 ± 04 1.10.7E ± 02 9.336 8E ± 01 8.2576 ± 02 1.455 2E ± 01 1.982 9E ± 00 2.638 5E ± 00 7.291 9E = 01 5.176 8E ± 00	T RHO H A S Z Game	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E-01 3.4369E+01	2.3851E+04. 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E-01 5.5925E+00	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00 7.4279E-01 5.6485E+00
T RHO H A S Z GAME U SPECIES	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0174E+01 1.7513E+00 2.0058E+03 7.6062E-01 3.1501E+01	1.9946E-04 1.0143E-02 7.9671E-01 7.0800E-02 1.3413E-01 1.9064E-00 2.4682E-00 7.1857E-01 5.2083E+00	2.7116E+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.982%E+00 2.6385E+00 7.2919E-01 5.1768E+00	T RHO H A S Z GAME U	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.837E+00 2.1186E+00 7.0855E-01 3.4369E+01	2.3851E+04 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E-01 5.5925E+00	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00 7.4279E-01 5.6485E+00
T RHO H A S Z GAME U SPECIES	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+03 7.6062E-01 3.1501E+01	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E+01 5.2083E+00	2.7116+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.9629E+00 2.6385E+00 7.2919E-01 5.1768E+00	T RHO H A S Z GAME U SPECIES	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.6337E+00 2.1186E+00 7.0855E-01 3.4369E+01	2.3851E+04- 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E-01 5.5925E+00 - MOLE FRACTIONS 6.2547E-01	3.2335E-04 1.2209E-02 9.2989E-01 9.8269E-02 1.6071E-01 2.0935E-00 2.8882E-00 7.4279E-01 5.6485E+00
T RHO H A S C GAME U SPECIES	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0176E+01 1.7513E+00 2.0058E+03 7.6062E-01 3.1501E+01	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E+01 5.2083E+00 - MOLE FRACTIONS 5.9484E-01 2.1015E-03	2.7116E+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.9629E+00 2.6385E+00 7.2919E-01 5.1768E+00	T RHO H A S Z GAME U SPECIES	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E-01 3.4369E+01	2.3851E+04 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 7.3044E-01 5.5925E+00 - MOLE FRACTIONS 6.2547E-01 1.0143E-03	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00 7.4279E-01 5.6485E+00
T RHO H A S Z Z GAME U SPECIES	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+01 3.1501E+01 5.0144E-01 8.0650E-03 4.7956E-01	1.9946E+04 1.0143E+02 7.967IE+01 7.0800E+02 1.3413E+01 1.9064E+00 2.468ZE+00 7.1857E-01 5.2083E+00 - MOLE FRACTIONS 5.9484E-01 2.1015E-03 2.117ZE-01	2.7116 ± 04 1.10.7E ± 02 9.336 8F ± 01 8.2576 ± 02 1.455 2E ± 01 1.982 9E ± 00 2.638 5E ± 00 7.291 9E ± 01 5.176 8E ± 00 4.2100E ± 01 1.266 2E ± 03 1.3615 E ± 01	T RHO H A S Z Game U Species E- A	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E+01 3.4369E+01	2.3851E+04- 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E+01 5.5925E+00 - NOLE FRACTIONS 6.2547E-01 1.0143E-03 1.2356E-01	3.235E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00 7.4279E-01 5.6485E+00
T RHD H A S Z GAME U SPECIES E-A A+A+	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0176E+01 1.7513E+00 2.058E+03 7.6062E-01 3.1531E+01 5.0144E-01 8.0650E-03 4.7956E-01 1.0938E-02	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E-01 5.2083E+00 - MOLE FRACTIONS 5.9484E-01 2.1015E-03 2.1172E-01 1.9089E-01	2.7116+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.9829E+00 2.6385E+00 7.2919E-01 5.1768E+00 	T RHO H A S Z GAME U SPECIES E- A A+ A++	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.0337E+00 2.1186E+00 7.0855E-01 3.4369E+01 5.2799E-01 2.7512E-03 4.1052E-01 5.8733E-02	2.3851E+04- 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 7.3044E-01 5.5925E+00 - MOLE FRACTIONS 6.2547E-01 1.0143E-03 1.2356E-01 2.4756E-01	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00 7.4279E-01 5.6485E+00
T RHO H A S Z Z GAME U SPECIES	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+01 3.1501E+01 5.0144E-01 8.0650E-03 4.7956E-01	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E+01 5.2083E+00 - MOLE FRACTIONS 5.9484E-01 2.1015E-03 2.1172E+01 1.9089E+01 4.4285E-04	2.7116 ± 04 1.10.7E ± 02 9.336 8F ± 01 8.2576 ± 02 1.455 2E ± 01 1.982 9E ± 00 2.638 5E ± 00 7.291 9E ± 01 5.176 8E ± 00 4.2100E ± 01 1.266 2E ± 03 1.3615 E ± 01	T RHO H A S Z GAME U SPECIES E- A A+ A++	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E-01 3.4369E+01	2.3851E+04 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E-01 5.5925E+00 - MOLE FRACTIONS 6.2547E-01 1.0143E-03 1.2356E-01 2.4756E-01 1.9941E-03	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 7.4279E-01 5.6485E+00
T RHD H A S Z GAME U SPECIES E-A A+A+	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0176E+01 1.7513E+00 2.0058E+03 7.6062E-01 3.1501E+01 5.0144E-01 8.0650E-03 4.7956E-01 1.0938E-02 4.6382E-08	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E+01 5.2083E+00 - MOLE FRACTIONS 5.9484E-01 2.1015E-03 2.1172E+01 1.9089E+01 4.4285E-04	2.7116+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.9829E+00 2.6385E+00 7.2919E-01 5.1768E+00 	T RHO H A S Z GAME U SPECIES E- A A+ A++	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.0337E+00 2.1186E+00 7.0855E-01 3.4369E+01 5.2799E-01 2.7512E-03 4.1052E-01 5.8733E-02	2.3851E+04- 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E+01 5.5925E+00 - NOLE FRACTIONS 6.2547E-01 1.0143E-03 1.2356E-01 2.476E-01 1.9941E-03 3.1654E-03	3.2335E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00 7.4279E-01 5.6485E+00
T RHO H A S Z GAME U SPECIES E- A A A++ A+++	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+03 7.6062E-01 3.1501E+01 5.0144E-01 8.0650E-03 4.7956E-01 1.0938E-02 4.6382E-08 9.5071E-18	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E-01 5.2063E+00 - MOLE FRACTIONS 5.9484E-01 2.1015E-03 2.1172E-01 1.9089E-01 4.4285E-04 1.2236E-09	2.7116 ± 04 1.10.7E ± 02 9.336 8E ± 01 8.2576 ± 02 1.455 2E ± 01 1.982 9E ± 00 2.638 5E ± 00 7.291 9E = 01 5.176 8E ± 00 6.2100 E = 01 1.266 2E = 03 1.361 5E = 01 2.3989 E = 01 1.68 73 E = 03 2.3320 E = 08	T RHO H A S Z GAME U SPECIES E- A A+ A++	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E-01 3.4369E+01	2.3851E+04 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E-01 5.5925E+00 - MOLE FRACTIONS 6.2547E-01 1.0143E-03 1.2356E-01 2.4756E-01 1.9941E-03	3.235E-04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 7.4279E-01 5.6485E+00
T RHO H A S Z GAME U SPECIES E-A A++ A+++ A+++ AV	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+03 7.6062E-01 3.1501E+01 5.0144E-01 8.0650E-03 4.7956E-01 1.0938E-02 4.6382E-08 9.5071E-18 1.3033E-31	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E+01 5.2083E+00 - MOLE FRACTIONS 5.9484E-01 2.1015E-03 2.1172E-01 1.9089E-01 4.4265E-04 1.2236E-09 4.4366E-18	2.7116E+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.9829E+00 2.6385E+00 7.2919E-01 5.1768E+00 	T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.0337E+00 2.1186E+00 7.0855E+01 3.4369E+01 2.7512E-03 4.1052E-01 5.8733E-02 3.7234E-06 3.3850E-14 5.5355E-26	2.3851E+04- 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E+01 5.5925E+00 - NOLE FRACTIONS 6.2547E-01 1.0143E-03 1.2356E-01 2.476E-01 1.9941E-03 3.1654E-03	3.235E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00 7.4279E-01 5.6485E+00
T RHO H A S Z GAME U SPECIES E A A + A + A + + A + + A + A + A V I	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+01 3.1501E+01 3.1501E+01 5.0144E-01 8.0650E-03 4.7956E-01 1.0938E-02 4.6382E-08 9.5071E-16 1.3033E-31 5.5645E-55	1.9946E+04 1.0143E+02 7.967IE+01 7.0800E+02 1.34413E+01 1.9064E+00 2.4682E+00 7.1857E+01 5.2083E+00 - MOLE FRACTIONS 5.9484E+01 2.1015E+03 2.1172E+01 1.9089E-01 4.426E-04 1.2236E-09 4.436E-18 1.1089E-29	2.7116E+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.9629E+00 2.6385E+00 7.2919E-01 5.1768E+00 4.2662E-03 1.3615E-01 2.3989E-01 1.6873E-03 2.3320E-08 6.8501E-16 2.2942E-26	T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++ AV	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E+01 3.4369E+01 2.7512E+03 4.1052E-01 5.8733E-02 3.7234E-06 3.3850E-14 5.5355E-26 7.9242E-42	2.3851E+04- 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E+01 5.5925E+00 - MOLE FRACTIONS 6.2547E+01 1.0143E+03 1.2356E+01 2.4756E+01 1.9941E+03 3.1654E+08 1.0726E+15 4.1639E+26	3.235E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 7.4279E-01 5.6485E+00
T RHD H A S Z GAME U SPECIES E- A A A++ A+++ AV AVI AVII	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.0058E+00 7.6062E-01 3.1501E+01 5.0144E-01 8.0650E-03 4.7956E-01 1.0938E-02 4.6382E-08 9.5071E-18 1.3033E-31 5.645E-55 2.1414E-75	1.9946E+04 1.0143E+02 7.9671E+01 7.0800E+02 1.3413E+01 1.9064E+00 2.4682E+00 7.1857E-01 5.2083E+00 - MOLE FRACTIONS 5.9484E-01 2.1015E-03 2.1172E-01 1.9089E-01 4.4285E-04 1.2236E-09 4.4364E-18 1.1089E-29	2.7116 ± 04 1.10.7E ± 02 9.336 8E ± 01 8.2576 ± 02 1.455 2E ± 01 1.962 %E ± 00 2.638 5E ± 00 7.291 9E ± 01 5.176 8E ± 00 6.2100 E ± 01 1.266 2E ± 03 1.361 5E ± 01 2.39 89 E ± 01 1.68 73 E ± 03 2.33 20 E ± 08 6.8501 E ± 16 2.294 2E ± 26 8.08 83 E ± 41	T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV AVI AVI AVI AVI AVI	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E+01 3.4369E+01 5.2799E-01 2.7512E-03 4.1052E-01 5.8733E-02 3.7234E-04 3.3850E-14 5.5355E-26 7.9242E-42 8.0479E-54	2.3851E+04- 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E-01 5.5925E+00 - MOLE FRACTIONS 6.2547E-01 1.0143E-03 1.2356E-01 2.4796E-01 1.9941E-03 3.1654E-08 1.0726E-15 4.1639E-26	3.235E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.4842E+00 7.4279E+01 5.6485E+00
T RHO H A S Z GAME U SPECIES E A A + A + A + + A + + A + A + A V I	1.7911E+03 6.7899E+01 1.3152E+01 3.8628E+02 1.0178E+01 1.7513E+00 2.058E+01 3.1501E+01 3.1501E+01 5.0144E-01 8.0650E-03 4.7956E-01 1.0938E-02 4.6382E-08 9.5071E-16 1.3033E-31 5.5645E-55	1.9946E+04 1.0143E+02 7.967IE+01 7.0800E+02 1.34413E+01 1.9064E+00 2.4682E+00 7.1857E+01 5.2083E+00 - MOLE FRACTIONS 5.9484E+01 2.1015E+03 2.1172E+01 1.9089E-01 4.426E-04 1.2236E-09 4.436E-18 1.1089E-29	2.7116E+04 1.1007E+02 9.3368E+01 8.2576E+02 1.4552E+01 1.9629E+00 2.6385E+00 7.2919E-01 5.1768E+00 4.2662E-03 1.3615E-01 2.3989E-01 1.6873E-03 2.3320E-08 6.8501E-16 2.2942E-26	T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++ AV	2.1317E+03 7.6363E+01 1.3176E+01 4.5952E+02 1.0707E+01 1.8337E+00 2.1186E+00 7.0855E+01 3.4369E+01 2.7512E+03 4.1052E-01 5.8733E-02 3.7234E-06 3.3850E-14 5.5355E-26 7.9242E-42	2.3851E+04- 1.1015E+02 8.1095E+01 8.4284E+02 1.4657E+01 2.0105E+00 2.6700E+00 7.3044E+01 5.5925E+00 - MOLE FRACTIONS 6.2547E+01 1.0143E+03 1.2356E+01 2.4756E+01 1.9941E+03 3.1654E+08 1.0726E+15 4.1639E+26	3.235E+04 1.2209E+02 9.2989E+01 9.8269E+02 1.6071E+01 2.0935E+00 2.8482E+00 7.4279E-01 5.6485E+00

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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 2.3161E+03 2.6334E+04 3.5811E+04	P 2.7089E+03 3.1801E+04 4.3456E+04
T 7.9167E+01 1.1566E+02 1.2963E+02	T- 8.4022F+01 1.2877E+02 1.4352E+02
RHO 1.3401F+01 8.2176E+01 9.3759E+01	RHO 1.3885E+01 8.3639E+01 9.6657E+01
H 4.9862E+02 9.1561E+02 1.0699E+03	H 5.8165F+02 1.0703E+03 1.2529E+03
A 1.1032E+01 1.5381E+01 1.6815E+01	A 1.1713E+01 1.6771E+01 1.8105E+01
S 1.8747E+00 2.0621E+00 2.1483E+00	S 1.9582E+00 2.1619E+00 2.2533E+00
Z 2.1831E+00 2.7707E+00 2.9464E+00	Z 2.3219E+00 2.9528E+00 3.1327E+00
GAME 7.0417E-01 7.3822E-01 7.4031E-01	GAME 7.0328E-01 7.3974E-01 7.2907E-01
U 3.58515+01 5.8566E+00 5.9784E+00	U 3.8827E+01 6.4506E+00 6.5193E+00
3.33312.01	3.002/2007
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
STECTES HOLD TRACTIONS	SPECIES HOLL TRACTIONS
E= 5.4193E=01 6.3908E=01 6.6061E=01	E- 5.6932E-01 6.6134E-01 6.8078E-01
A 2.0294E-03 6.2958E-04 2.2517E-04	A 1.2205E-03 1.9686E-04 7.1949E-05
A+ 3.7017E-01 8.5870E-02 3.7252E-02	
A++ 8.5859F-02 2.7004E-01 2.8240E-01	A++ 1.3974E-01 2.8305E-01 2.4572E-01
A+++ 1.1308F-05 4.3798E-03 1.9512E-02	A+++ 5.6687E-05 1.9907E-02 5.7801E-02
A++++ 2.8965F-13 1.8545E-07 6.4557E-06	A++++ 7.2379E-12 6.4808E-06 1.0689E-04
AV 1.7584F-24 2.1964E-14 1.0744E-11	AV 3.4398F-22 1.0270E-11 1.5971E-09
AVI 1.2316E-39 3.9526E-24 5.0378E-20	AVI 3.0428F-36 4.4280F-20 1.1147E-16
AVII 1.0366E-60 1.2773E-37 1.2893E-31	AVII 8.4894E-56 9.7959E-32 1.0042E-26
AVIII 1.4598E-86 1.6336E-54 2.7274E-46	AVIII. 7.7484E-80 1.7151E-46 1.3655E-39
10,000 00 1000000 00 10000000 00 100000000	
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01 - E 00E-01 N/SO-N. HSI- 1 30E-04 N/SEC	B1 = 5 00EA01/N/50=M. HS1= 1 40EA04 M/SEC
P1 = 5.00F+01 N/SQ-M, US1= 1.30F+04 M/SEC	P1 = 5.00E+01/N/SQ-M, US1= 1.40E+04 M/SEC
P1 = 5.00F+01 N/SQ-M, US1= 1.30F+04 M/SEC	P1 = 5.00F+01 N/SQ-M, US1= 1.40E+04 M/SEC
1900	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.9167E+03 3.4733E+04 4.7530E+04
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.5086F+03 2.9001E+04 3.9527E+04 T 8.1665E+01 1.2196E+02 1.3695E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 2.5086F+03 2.9001E+04 3.9527E+04 T 8.1665E+01 1.2196E+02 1.3695E+02 RHO 1.3647E+01 8.3011E+01 9.4929E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2-9167E+03 3-4733E+04 4-7530E+04 T 8-6334E+01 1-3534E+02 1-4971E+02 RHO 1-4104E+01 8-4480E+01 9-8320E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 2.5086F+03 2.9001E+04 3.9527E+04 T 8.1665E+01 1.2196E+02 1.3695E+02 RHO 1.3647E+01 8.3011E+01 9.4929E+01 H 5.3934E+02 9.9148F+02 1.1597E+03	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.9167E+03 3.4733E+04 4.7530E+04 T 8.6334E+01 1.3534E+02 1.4971E+02 RHO 1.4104E+01 8.4480E+01 9.8320E+01 H 6.2556E+02 1.1521E+03 1.3490E+03
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 2.5086F+03 2.9001E+04 3.9527E+04 T 8.1665E+01 1.2196E+02 1.3695E+02 RHO 1.3647E+01 8.3011E+01 9.4929E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.5086F+03 2.9001E+04 3.9527E+04 1.3695E+02 1.3695E+02 1.3647E+01 8.3011E+01 9.4929E+01 H 5.3934E+02 9.9148F+02 1.1597E+03 1.1367F+01 1.6109E+01 1.7474E+01 S 1.9162E+00 2.1122E+00 2.2020E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.9167E+03 3.4733E+04 4.7530E+04 T 8.6334E+01 1.3534E+02 1.4971E+02 RHO 1.4104E+01 8.4480E+01 9.8320E+01 H 6.2556E+02 1.1521E+03 1.3490E+03
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.5086F+03 2.9001E+04 3.9527E+04 1.3695E+02 1.3695E+02 1.3647E+01 8.3011E+01 9.4929E+01 H 5.3934E+02 9.9148F+02 1.1597E+03 1.1367F+01 1.6109E+01 1.7474E+01 S 1.9162E+00 2.1122E+00 2.2020E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.5086F+03 2.9001E+04 3.9527E+04 T 8.1665E+01 1.2196E+02 1.3695E+02 RHO 1.3647E+01 8.3011E+01 9.4929E+01 H 5.3934E+02 9.9148F+02 1.1597E+03 1.1367F+01 1.6109E+01 1.7474E+01 S 1.9162E+00 2.1122E+00 2.2020E+00 Z 2.2510E+00 2.8647E+00 3.0404E+00 3.040	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+06 1.8665E+01 1.2196E+02 1.3695E+02 1.3647E+01 8.3011E+01 9.4929E+01 H. 5.3934E+02 9.9148E+02 1.1597E+03 1.1597E+03 1.1367F+01 1.6109E+01 1.7474E+01 1.9142E+00 2.2102E+00 2.2202E+00 2.2510E+00 2.8647E+00 3.0404E+00 GAME 7.0292E-01 7.4280E-01 7.3335E-01 7.4280E-01 7.3335E-01 7.4280E-01 7.3335E-01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+06 1.8665E+01 1.2196E+02 1.3695E+02 1.3647E+01 8.3011E+01 9.4929E+01 H. 5.3934E+02 9.9148E+02 1.1597E+03 1.1597E+03 1.1367F+01 1.6109E+01 1.7474E+01 1.9142E+00 2.2102E+00 2.2202E+00 2.2510E+00 2.8647E+00 3.0404E+00 GAME 7.0292E-01 7.4280E-01 7.3335E-01 7.4280E-01 7.3335E-01 7.4280E-01 7.3335E-01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+04 T	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+06 1.8665E+01 1.2196E+02 1.3695E+02 1.3647E+01 8.3011E+01 9.4929E+01 H. 5.3934E+02 9.9148E+02 1.1597E+03 1.1597E+03 1.1367F+01 1.6109E+01 1.7474E+01 1.9142E+00 2.2102E+00 2.2202E+00 2.2510E+00 2.8647E+00 3.0404E+00 GAME 7.0292E-01 7.4280E-01 7.3335E-01 7.4280E-01 7.3335E-01 7.4280E-01 7.3335E-01	MOVING SHOCK -STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+06 T. 8.1665E+01 1.2196E+02 1.3695E+02 RHO 1.3647E+01 8.301LE+01 9.4929E+01 H. 5.3934E+02 9.9148F+02 1.1597E+03 1.1597E+03 1.1597E+03 1.1597E+03 1.1597E+01 1.6109E+01 1.7474E+01 S. 1.9142E+00 2.1122E+00 2.2020E+00 T. 2.2510E+00 2.8647E+00 3.0404E+00 GAME T.0292E-01 T.4280E-01 T.3335E-01 U. 3.7338E+01 6.1427E+00 6.2516E+00 SPECIES MOLE FRACTIONS SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+04 T	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2-9167E+03 3-4733E+04 4-7530E+04 T 8-6334E+01 1-3534E+02 1-4971E+02 RHO 1-4104E+01 8-4480E+01 9-8320E+01 H 6-2556E+02 1-1521E+03 1-3490E+03 A 1-2072E+01 1-7361E+01 1-8760E+01 S 2-0007E+00 2-2109E+00 2-3054E+00 Z 2-3953E+00 3-0378E+00 3-2290E+00 GAME 7-0471E-01 7-3311E-01 7-2806E-01 U 4-0314E+01 6-7409E+00 6-7625E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.5086F+03 2.9001E+04 3.9527E+04 T 8.1665E+01 1.2196E+02 1.3667E+02 1.3667E+02 1.3667E+01 8.3011E+01 9.4929E+01 H 5.3934E+02 9.9148F+02 1.1597E+03 1.1567E+03 1.1367F+01 1.6109E+01 1.7474E+01 S 1.9162E+00 2.1122E+00 2.2020E+00 Z 2.2510E+00 2.8647E+00 3.0404E+00 GAME 7.0292E-01 7.4280E-01 7.3335E-01 U 3.7338E+01 6.1427E+00 6.2516E+00 SPECIES MOLE FRACTIONS SPECIES MOLE FRACTIONS 6.7110E-01 A 1.5610E-03 3.6006E-04 1.2176E-04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+06 1.8695E+02 1.3695E+02 1.3695E+02 1.3697E+01 1.2196E+02 1.3697E+03 1.3647E+01 8.3011E+01 9.4929E+01 1.597E+03 1.1597E+03 1	MOVING SHOCK -STANDING SHOCK REFLECTED SHOCK P 2-9167E+03 3-4733E+04 4-7530E+04 T 6-6334E+01 1-3534E+02 1-4971E+02 RHO 1-4104E+01 8-4480E+01 9-8320E+01 H 6-2556E+02 1-1521E+03 1-3490E+03 A 1-2072E+01 1-7361E+01 1-8760E+01 S 2-0007E+00 2-2109E+00 2-3054E+00 Z 2-3953E+00 3-0378E+00 3-2290E+00 GAME 7-0471E+01 7-3311E+01 7-2806E+01 U 4-0314E+01 6-7409E+00 6-7625E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+04 T	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2-9167E+03 3-4733E+04 4.7530E+04 T 8-6334E+01 1.3534E+02 1.4971E+02 RHO 1.4104E+01 8-4480E+01 9-8320E+01 H 6-2556E+02 1.1521E+03 1.3490E+03 A 1.2072E+01 1.7361E+01 1.8760E+01 S 2.0007E+00 2.2109E+00 2.3054E+00 Z 2.3953E+00 3.0378E+00 3.2290E+00 GAME 7.0471E-01 7.3311E-01 7.2806E-01 U 4.0314E+01 6.7409E+00 6.7625E+00 SPECIES MOLE FRACTIONS
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.5086F+03 2.9001E+04 3.9527E+04 T 8.1665E+01 1.2196E+02 1.3665E+02 RHO 1.3647E+01 8.3011E+01 9.492E+01 H 5.3934E+02 9.9148F+02 1.1597E+03 A. 1.1367F+01 1.6109E+01 1.7474E+01 S 1.9162E+00 2.1122E+00 2.020E+00 Z 2.2510E+00 2.8647E+00 3.0404E+00 GAME 7.0292E-01 7.4280E-01 7.3335E-01 U 3.7338E+01 6.1427E+00 6.2516E+00 SPECIES MOLE FRACTIONS FRACTIONS FRACTIONS FRACTIONS SPECIES MOLE FRACTIONS 4.5610E-03 3.6006E-04 1.2176E-04 A+ 3.2964E-01 2.8297E-01 2.8297E-01 2.6863E-01 A+++ 2.7080E-05 9.6181E-03 3.6800F-02 C.2500E-02 C.2500	MOVING SHOCK -STANDING SHOCK REFLECTED SHOCK P 2-9167E+03 3-4733E+04 4-7530E+04 T 6-6334E+01 1-3534E+02 1-4971E+02 RHO 1-4104E+01 8-4480E+01 9-8320E+01 H 6-2556E+02 1-1521E+03 1-3490E+03 A 1-2072E+01 1-7361E+01 1-8760E+01 S 2-0007E+00 2-2109E+00 2-3054E+00 Z 2-3958E+00 3-0378E+00 3-2290E+00 GAME 7-0471E-01 7-3311E-01 7-2806E-01 U 4-0314E+01 6-7409E+00 6-7625E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P.	MOVING SHOCK -STANDING SHOCK REFLECTED SHOCK P 2-916TE+03 3-4733E+04 4-7530E+04 T 8-6334E+01 1-3534E+02 1-4971E+02 RHO 1-4104E+01 8-4480E+01 9-8320E+01 H 6-2556E+02 1-1521E+03 1-3490E+03 A 1-2072E+01 1-7361E+01 1-8760E+01 S 2-0007E+00 2-2109E+00 2-3054E+00 Z 2-3953E+00 3-0290E+00 3-2290E+00 GAME 7-0471E-01 7-3311E-01 7-2806E+01 U 4-0314E+01 6-7409E+00 6-7625E+00 SPECIFS
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.5086F+03 2.9001E+04 3.9527E+04 T	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2-9167E+03 3-4733E+04 4.7530E+04 T 8-6334E+01 1.4971E+02 RHO 1.4104E+01 8-4480E+01 9-8320E+01 H 6-2556E+02 1.1521E+03 1.3490E+03 A 1.2072E+01 1.7361E+01 1.8760E+01 S 2.0007E+00 2.2109E+00 2.3054E+00 Z 2.3953E+00 3.0378E+00 3.2290E+00 GAME 7.0471E-01 7.3311E-01 7.2806E-01 U 4.0314E+01 6.7409E+00 6.7625E+00 SPECIFS S S S S S S S S S
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P.	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.916TE+03 3.4733E+04 4.7530E+04 T 6.6334E+01 1.3534E+02 1.4971E+02 RHO 1.4104E+01 8.4480E+01 9.8320E+01 H 6.2556E+02 1.1521E+03 1.3490E+03 A 1.2072E+01 1.7361E+01 1.8760E+01 S 2.0007E+00 2.2109E+00 2.3054E+00 Z 2.3953E+00 3.0378E+00 3.2290E+00 GAME 7.0471E+01 7.3311E+01 7.2806E+01 U 4.0314E+01 6.7409E+00 6.7625F+00 SPECIFS SPECIFS MOLE FRACTIONS SPECIFS S.8251E-01 6.7081E-01 6.9031E-01 A 9.5543E-04 1.1184E-04 4.4066E-05 A 2.5065E-01 2.3046E-02 1.0588E-02 A 4.4066E-05 A 2.5065F-01 2.7036E-01 2.1775E-01 A 4.4066E-05 A
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.5086F+03 2.9001E+04 3.9527E+04 T	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2-9167E+03 3-4733E+04 4.7530E+04 T 8-6334E+01 1.4971E+02 RHO 1.4104E+01 8-4480E+01 9-8320E+01 H 6-2556E+02 1.1521E+03 1.3490E+03 A 1.2072E+01 1.7361E+01 1.8760E+01 S 2.0007E+00 2.2109E+00 2.3054E+00 Z 2.3953E+00 3.0378E+00 3.2290E+00 GAME 7.0471E-01 7.3311E-01 7.2806E-01 U 4.0314E+01 6.7409E+00 6.7625E+00 SPECIFS S S S S S S S S S
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+04 T. 8.1665E+01 1.2196E+02 1.3695E+02 RHO 1.3647E+01 8.3011E+01 9.4929E+01 H. 5.3934E+02 9.9148F+02 1.1597E+03 A. 1.1367F+01 1.6109E+01 1.7474E+01 S. 1.9162E+00 2.1122E+00 2.2020E+00 Z. 2.2510E+00 2.8647E+00 3.0404E+00 GAME T.0292E-01 7.4280E-01 7.3335E-01 U. 3.7338E+01 6.1427E+00 6.2516E+00 SPECIES MOLE FRACTIONS FRACTIONS FRACTIONS SPECIES MOLE FRACTIONS MOLE FRACTIONS MOLE FRACTIONS MOLE FRACTIONS MOLE FRACTIONS SPECIES MOLE FRACTIONS 3.6006E-04 1.2176E-04 A. 3.2964E-01 5.6127E-02 2.3320E-02 A++ 1.1302E-01 2.8297E-01 2.6863E-01 A++ 2.7080E-05 9.6181E-03 3.6800E-02 A++ 1.6295E-12 1.1402E-06 3.1692E-05 A++ 1.6295E-38 4.4776E-22 3.7317E-18 AVII 4.4281E-58 1.2289E-34 6.8849E-29 AVII 4.4281E-58 1.2289E-3	MOVING SHOCK -STANDING SHOCK REFLECTED SHOCK P 2-9167E+03 3-4733E+04 4-7530E+04 T 6-6334E+01 1-3534E+02 1-4971E+02 RHO 1-4104E+01 8-4480E+01 9-8320E+01 H 6-2556E+02 1-1521E+03 1-3490E+03 A 1-2072E+01 1-7361E+01 1-8760E+01 S 2-0007E+00 2-2109E+00 2-3054E+00 Z 2-3953E+00 3-0378E+00 3-2290E+00 GAME 7-0471E+01 7-3311E+01 7-2806E+01 U 4-0314E+01 6-7409E+00 6-7625E+00 SPECIES S S S S S S S S S
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+04 T. 8.1665E+01 1.2196E+02 1.3695E+02 RHO 1.3647E+01 8.3011E+01 9.4929E+01 H. 5.3934E+02 9.9148F+02 1.1597E+03 A. 1.1367F+01 1.6109E+01 1.7474E+01 S. 1.9162E+00 2.1122E+00 2.2020E+00 Z. 2.2510E+00 2.8647E+00 3.0404E+00 Z. 2.2510E+00 Z. 2.335E-01 U. 3.7338E+01 6.1427E+00 6.2516E+00 SPECIES MOLE FRACTIONS SPECIES MOLE FRACTIONS MOLE FRACTIONS E. 5.5576E-01 6.5092E-01 6.7110E-01 A. 1.5610E-03 3.6006E-04 1.2176E-04 A. 3.2964E-01 5.6127E-02 2.3320E-02 A++ 1.1302E-01 2.8297E-01 2.6863E-01 A+++ 2.7080E-05 9.6181E-03 3.6800E-02 A+++ 1.6295E-12 1.1402E-06 3.1692E-05 A+++ 1.6295E-12 1.1402E-06 3.1317E-18 AVII 8.0098E-38 4.4776E-22 3.7317E-18 AVII 4.4281E-58 1.2289E-34 6.8849E-29 AVII 4.4281E-58 1.22	MOVING SHOCK -STANDING SHOCK REFLECTED SHOCK P 2-9167E+03 3-4733E+04 4.7530E+04 T 8-6334E+01 1.3534E+02 1.4971E+02 RHO 1.4104E+01 8-4480E+01 9-8320E+01 H 6-2556E+02 1.1521E+03 1.3490E+03 A 1.2072E+01 1.7361E+01 1.8760E+01 S 2.0007E+00 2.2109E+00 2.3054E+00 Z 2.3953E+00 3.0378E+00 3.2290E+00 GAME 7.0471E-01 7.3311E-01 7.2806E-01 U 4.0314E+01 6.7409E+00 6.7625E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 2.5086F+03 2.9001E+04 3.9527E+04 T. 8.1665E+01 1.2196E+02 1.3695E+02 RHO 1.3647E+01 8.3011E+01 9.4929E+01 H. 5.3934E+02 9.9148F+02 1.1597E+03 A. 1.1367F+01 1.6109E+01 1.7474E+01 S. 1.9162E+00 2.1122E+00 2.2020E+00 Z. 2.2510E+00 2.8647E+00 3.0404E+00 GAME T.0292E-01 7.4280E-01 7.3335E-01 U. 3.7338E+01 6.1427E+00 6.2516E+00 SPECIES MOLE FRACTIONS FRACTIONS FRACTIONS SPECIES MOLE FRACTIONS MOLE FRACTIONS MOLE FRACTIONS MOLE FRACTIONS MOLE FRACTIONS SPECIES MOLE FRACTIONS 3.6006E-04 1.2176E-04 A. 3.2964E-01 5.6127E-02 2.3320E-02 A++ 1.1302E-01 2.8297E-01 2.6863E-01 A++ 2.7080E-05 9.6181E-03 3.6800E-02 A++ 1.6295E-12 1.1402E-06 3.1692E-05 A++ 1.6295E-38 4.4776E-22 3.7317E-18 AVII 4.4281E-58 1.2289E-34 6.8849E-29 AVII 4.4281E-58 1.2289E-3	MOVING SHOCK -STANDING SHOCK REFLECTED SHOCK P 2-9167E+03 3-4733E+04 4.7530E+04 T 8-6334E+01 1.3534E+02 1.4971E+02 RHO 1.4104E+01 8-4480E+01 9-8320E+01 H 6-2556E+02 1.1521E+03 1.3490E+03 A 1.2072E+01 1.7361E+01 1.8760E+01 S 2.0007E+00 2.2109E+00 2.3054E+00 Z 2.3953E+00 3.0378E+00 3.2290E+00 GAME 7.0471E-01 7.3311E-01 7.2806E-01 U 4.0314E+01 6.7409E+00 6.7625E+00 SPECIES

, ,.	00E+01 N/SQ-P	. US1= 1.45E+0	4 M/SEC	P1 = 5	.00E+01 N/SQ-M	. US1= 1.55E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.1319F+03	3.7788E+04	5-1712E+04	ρ .	3.5834E+03	4.4071E+04	6.0251E+04
T	8.8678F+01	1.4133E+02	1.5560E+02	7	9.3736F+01	1.5232E+02	1.6761E+02
RHO	1.4294E+01	8.5633E+01	9.9913E+01	RHO '	1.4561E+01	8.7664E+01	1.0190E+02
н	6.7106E+02	1.2371E+03	1.4482E+03	н	7.6680E+02	1.4155E+03	1.6564E+03
Α .	1.2447E+01	1.7932E+01	1.94305+01	Α .	1.3263E+01	1.9129E+01	2.0871E+01
S	2.0436E+00	2.2587E+00	2.3564E+00	s	2.1301E+00	2.3555E+00	2.4592E+00
Z	2.4708E+00	3.1223E+00	3.3263E+00	Ζ.	2.6255E+00	3.3004E+00	3.5276E+00
GAME	7.0705E-01	7.2867E-01	7.2945E-01	GAME	7.1479E-01	7.2784E-01	7.3670E-01
Ú	4.1796E+01	6.9912E+00	6.9929E+00	U	4.4738F+01	7.4466E+00	7.4562E+00
SPEC IES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	5.9527E-01	6.7972E-01	6.9936E-01	E	6.1912F-01	6.970LE-01	7.1652E-01
Δ '	7.4038E-04	6.8146E-05	2.7666E-05	Ã.	4.1383E-04	2.7684E-05	1.02975-05
Δ+	2.1290E-01	1.5702E-02	7.3511E-03	A+	1.4246E-01	7.7596E-03	3.4018E-03
A++	1.9089E-01	2.4959E-01	1.8842E-01	A++	2.3736E-01	1.9686E-01	1.2974E-01
A+++	2.0181E-04	5.4828E-02	1.0419E-01	A+++	6.5004E-04	9.7836E-02	1.4767E-01
A++++	1.0109E-10	8.8059E-05	6.5633E-04	Δ++++	1.2541E-09	5.0314E-04	2.6610E-03
AV .	2.7662F-20	1.0670E-09	4.7225E-08	AV ·	1.9233E-18	. 2.7047E-08	7.3662E-07
AVI	2.0990F-33	5.6100E-17	2.3083E-14	AVI	1.2083E-30	8.9679E-15	1.9173E-12
AVII	1.10046-51	3.3691E-27	2.6593E-23	AVII	1.1243E-47	6.0201E-24	. 1.9295E-20
IIIVA	3.0178E-74	2.79748-40	7.2147E-35	AVITI	8.69185-69	8.4857E-36	6.7126E-31
				•			
							•
P1 = 5.	.00E+01 N/SQ-M	, US1≃ 1:50E+0	4 M/SEC	P1 = 5	•00E+01 N/SQ-M	. US1= 1-60E+0	4 H/SEC
P1 = 5.			Ÿ., ```	P1 = 5	,	*	4 M/SEC
P1 = 5.		• US1= 1.50E+0 • STANDING SHOCK • 4.0909E+04	Ÿ., ```	P1 = 5	.00E+01 N/SQ-M MOVING SHOCK 3.8193E+03	. USI= 1.60E+0 STANDING SHOCK 4.7128E+04	,
· .	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTÉD SHOCK
P -	MOVING SHOCK 3.3542E+03	STANDING SHOCK 4.0909E+04 1.4701E+02	REFLECTED SHOCK 5.5960E+04 1.6152E+02	P	MOVING SHOCK 3.8193E+03	STANDING SHOCK 4.7128E+04	REFLECTÉD SHOCK 6.4415E+04
P J	MOVING SHOCK 3.3542E+03 9.1124E+01	STANDING SHOCK	REFLECTED SHOCK 5.5960E+04	P T	MOVING SHOCK 3.8193E+03 9.6694E+01	STANDING SHOCK 4.7128E+04 1.5766E+02	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02
P J	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651F+01	REFLECTED SHOCK 5.5960E+04 1.6152E+02 1.0112E+02	P T RHO	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01	STANDING SHOCK 4.7128E+04 1.5766E+02 8.8071E+01	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02
P J	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814E+02	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651F+01 1.3249E+03	REFLECTED SHOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03	Р Т RHO Н	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02	STANDING SHOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03
P J	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814F+02 1.2843E+01	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651F+01 1.3249E+03 1.85285+01	REFLECTED SHOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01	P T RHO H	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730E+01	STANDING SHOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01	REFLECTED SHOCK 6.4415E-04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01
P J	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814F+02 1.2843E+01 2.0870F+00	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651F+01 1.3249E+03 1.8528E+01 2.3079E+00	REFLECTED SHOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00	P T RHO H A S	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730F+01 2.1744E+00	STANDING SHOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01 2.4050E+00	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7456E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01
P T RHO H A S	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814E+02 1.2843E+01 2.0870E+00 2.5480E+00	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.8528E+01 2.3079E+00 3.2114E+00 7.2712E-01	REFLECTED SHOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00 3.4263E+00	P T RHO H A S S	MOVING SHOCK 3-8193E+03 9-6694E+01 1-4603E+01 8-1703E+02 1-3730E+01 2-1746E+00 2-7748E+00	STANDING SHOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01 2.4050E+00 3.3941E+00	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00
P T RHO H A S	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814F+02 1.2843E+01 2.0870E+00 2.5480E+00 7.1036F-01 4.3271E+01	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.8528E+01 2.3079E+00 3.2114E+00 7.2712E-01	REFLECTED SHOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00 3.4263E+00 7.3252E-01 7.2218E+00	P T RHO H A S Z GAME	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730F+01 2.1744E+00 2.7048E+00 7.2081E-01 4.6193E+01	STANDING SHOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01 2.4050E+00 3.3941E+00 7.3017E-01	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01 7.7048E+00
P T RMO H A S Z GAME U SPECIES	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814F+02 1.2843E+01 2.0870E+00 2.5480E+00 7.1036F-01 4.3271E+01	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.8528E+01 2.3079E+00 3.2114E+00 7.2712E-01 7.2254E+00	REFLECTED SMOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00 3.4263E+00 7.3252E-01 7.2218E+00	P T RHO H A S Z GAME U	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730F+01 2.1744E+00 2.7048E+00 7.2081E-01 4.6193E+01	STANDING SMOCK 4.7128E+04 1.5766E+02 8.807IE+01 1.5087E+03 1.9767F+01 2.4050E+00 3.394IE+00 7.3017E-01 7.6712E+00	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01 7.7048E+00
P T RHO H A S Z GAME U	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814E+02 1.2843E+01 2.0870E+00 2.55480E+00 7.1036E-01 4.3271E+01	\$TANDING \$MOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.8528E+01 2.3079E+00 3.2114E+00 7.2712E-01 7.2254E+00 MOLE FRACTIONS 6.8861E-01	REFLECTED SHOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00 3.4263E+00 7.3252E-01 7.2218E+00	P T RHO H A S Z GAME U	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730F+01 2.1744E+00 2.7048E+01 4.6193E+01	STANDING SHOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01 2.4050E+00 3.3941E+00 7.3017E-01 7.6712E+00	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01 7.7048E+00
P T RMO H A S Z GAME U SPECIES	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814F+02 1.2843E+01 2.0870E+00 2.5480E+00 7.1036F-01 4.3271E+01	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.8528E+01 2.3079E+00 3.2114E+00 7.2712E-01 7.2254E+00	REFLECTED SMOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00 3.4263E+00 7.3252E-01 7.2218E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730F+01 2.1744E+00 2.7048E+00 7.2081E-01 4.6193E+01	STANDING SMOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01 2.4050E+00 3.3941E+00 7.3017E-01 7.6712E+00	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01 7.7048E+00
PTTRMOHA S S Z GAME U SPECIES	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814F+02 1.2843E+01 2.0870E+00 2.5480E+00 7.1036F-01 4.3271E+01	STANDING SMOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.85285+01 2.3079E+00 3.2114E+00 7.2712E-01 7.2254E+00 - MOLE FRACTIONS 6.8861E-01 4.2736E-05	REFLECTED SHOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00 3.4263E+00 7.3252E-01 7.2218E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3-8193E+03 9-6694E+01 1-4603E+01 8-1703E+02 1-3730E+01 2-1744E+00 2-7048E+00 7-2081E-01 4-6193E+01 	STANDING SMOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01 2.4050E+00 3.3941E+00 7.3017E-01 7.6712E+00 - MOLE FRACTIONS 7.0537E-01 1.7579E-05	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01 7.7048F+00
P T RHO H A S Z GAME U SPECIES E-A A+	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814F+02 1.2843E+01 2.0870E+00 2.5480E+00 7.1036F-01 4.3271E+01 6.0754E-01 5.6182F-04 1.7663E-01 2.1491E-01	STANDING SMOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.8528E+01 2.3079E+00 3.2114E+00 7.2712E-01 7.2254E+00 - MOLE FRACTIONS 6.8861E-01 4.2736E-05 1.0912E-02 2.2384E-01	REFLECTED SHOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00 3.4263E+00 7.3252E-01 7.2218E+00 7.0814E-01 1.7131E-05 5.0541E-03 1.5864E-01	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730F+01 2.1744E+00 2.7048E+01 4.6193E+01 6.3029E-01 2.8802E-04 1.0976E-01	STANDING SHOCK 4.7128E+04 1.5766E+02 8.807IE+01 1.5087E+03 1.9767F+01 2.4050E+00 3.994IE+00 7.3017E-01 7.6712E+00 - MOLE FRACTIONS 7.0537E-01 1.7579E-05 5.4431E-03	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01 7.7048E+00 7.2447E-01 5.9048E-06 2.2146E-03
P T RHO H A S Z GAME U SPECIES E-A A+A++	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814E+02 1.2848E+01 2.0870E+00 2.5480E+00 7.1036E-01 4.3271E+01	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.8528E+01 2.3079E+00 3.2114E+00 7.2712E-01 7.2254E+00 - MOLE FRACTIONS 6.8861E-01 4.2736E-05 1.0912E-02	REFLECTED SMOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00 3.4263E+00 7.3252E-01 7.2218E+00 7.0814E-01 1.7131E-05 5.0541E-03	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730F+01 2.1744E+00 2.7048E+00 7.2081E-01 4.6193E+01	STANDING SMOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01 2.4050E+00 3.3941E+00 7.3017E-01 7.6712E+00 - MOLE FRACTIONS 7.0537E-01 1.7579E-05 5.4431E-03 1.6861E-01	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01 7.7048E+00 7.2447E-01 5.9048E-06 2.2146E-03 1.0266E-01
P T RHO H A S Z GAME U SPECIES E-A A A A A A A A A A A A A A A A A A A	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814E+02 1.2843E+01 2.0870E+00 2.5480E+00 7.1036E-01 4.3271E+01 6.0754E-01 5.6182F-04 1.7663E-01 2.1491E-01 3.6359E-04	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.8528E+01 2.3079E+00 3.2114E+00 7.2712E-01 7.2254E+00 MOLE FRACTIONS 6.8861E-01 4.2736E-05 1.0912E-02 2.2384E-01 7.6365E-02	REFLECTED SMOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00 3.4263E+00 7.3252E-01 7.2218E+00 7.0814E-01 1.7131E-05 5.0541E-03 1.5864E-01 1.2678E-01	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730F+01 2.1744E+00 2.7048F+00 7.2081E-01 4.6193E+01	STANDING SHOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01 2.4050E+00 3.3941E+00 7.3017E-01 7.6712E+00 - MOLE FRACTIONS 7.0537E-01 1.7579E-05 5.4431E-03 1.6861E-01 1.1953E-01	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01 7.704BE+00 7.2447E-01 5.904BE-06 2.2146E-03 1.0266E-01
P T RHO H A S Z GAME U SPECIES E-A A+A+++	MOVING SHOCK 3.3542E+01 3.1542E+01 1.4446E+01 7.1814F+02 1.284E+01 2.0870E+00 2.5480E+00 7.1036E-01 4.3271E+01 6.0754E-01 5.6182F-01 2.1491E-01 3.6359E-04 3.5524E-10	STANDING SHOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.8528E+01 2.3079E+00 3.2114E+00 7.2712E-01 7.2254E+00 - MOLE FRACTIONS 6.8861E-01 4.2736E-05 1.0912E-02 2.2384E-01 7.6365E-02 2.2912E-04	REFLECTED SMOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077E+00 3.4263E+00 7.3252E-01 7.2218E+00 7.0814E-01 1.7131E-05 5.0541E-03 1.5864E-01 1.2678E-01 1.3631E-03	P T RHO H A S Z GAME U SPECIES E-A A+A++A+++	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730F+01 2.1744E+00 2.7048E+01 4.6193E+01 6.3029E-01 2.8802E-04 1.0976E-01 2.5847E-01 1.1973F-03 4.8320E-09	STANDING SHOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01 2.4050E+00 3.3941E+00 7.3017E-01 7.6712E+00 - MOLE FRACTIONS 7.0537E-01 1.7579E-05 5.4431E-03 1.6861E-01 1.1953E-01 1.0241E-03	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01 7.7048E+00 7.2447E-01 5.9048E-06 2.2146E-03 1.0266E-01 1.6567E-01 4.9802E-03
P T RHO H A S Z GAME U U SPECIES E-A++++++++++++++++++++++++++++++++++++	MOVING SHOCK 3.3542E+03 9.1124E+01 1.4446E+01 7.1814F+02 1.2843E+01 2.0870E+00 2.5480E+00 7.1036F-01 4.3271E+01 6.0754E-01 5.6182F-04 1.7663E-01 2.1491E-01 3.6359E-04 3.5524E-10 2.2871E-19	STANDING SMOCK 4.0909E+04 1.4701E+02 8.6651E+01 1.3249E+03 1.8528E+01 2.3079E+00 3.2114E+00 7.2712E-01 7.2254E+00 MOLE FRACTIONS 6.8861E-01 4.2736E-05 1.0912E-02 2.2384E-01 7.6365E-02 2.2912E-04 6.1737E-09	REFLECTED SHOCK 5.5960E+04 1.6152E+02 1.0112E+02 1.5506E+03 2.0134E+01 2.4077F+00 3.4263E+00 7.3252E-01 7.2218E+00 7.0814E-01 1.7131E-05 5.0541E-03 1.5864E-01 1.2678E-01 1.3631E-03 1.9474E-07	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A++ A+++	MOVING SHOCK 3.8193E+03 9.6694E+01 1.4603E+01 8.1703E+02 1.3730F+01 2.1744E+00 2.7048E+01 4.6193E+01 6.3029E-01 2.8802E-04 1.0976E-01 2.5847E-01 1.1973F-03 4.8320E-09 1.8990E-17	STANDING SMOCK 4.7128E+04 1.5766E+02 8.8071E+01 1.5087E+03 1.9767F+01 2.4050E+00 7.3017E-01 7.6712E+00 MOLE FRACTIONS 7.0537E-01 1.7579E-05 5.4431E-03 1.6861E-01 1.0241E-03 1.0578E-03	REFLECTÉD SHOCK 6.4415E+04 1.7401E+02 1.0200E+02 1.7656E+03 2.1636F+01 2.5110F+00 3.6294E+00 7.4121E-01 7.7048F+00 7.2447E-01 5.9048E-06 2.2146E-03 1.0266E-01 1.6567E-01 4.9802E-03 2.6498E-06

P1 = 5	.00E+01 N/SQ-M	US1= 1.65E+0	04 M/SEC	P1 = 5.00E+01 N/	SQ-M, US1= 1.75E+	04 M/SEC
		. *				
• _		STANDING SHOCK			OCK STANDING SHOCK	
Ρ-	4.0613E+03	5.0071E+04	. 6.8442E+04	P 4.5628E+	03 5.5329E+04	7.5725E+04
T	1.00085+02	1.6299E+02	-1.8076E+02	T 1.0872E+	02 . 1.7412F+02.	1.9479E+02
RHO	1.4586E+01	8.8084E+01	1.0151E+02	RHO : 1.4348F+	01 8.6515F+01	9.9027E+01
3H*	8.6882F+02	1.6043E+03	1.8781E+03	H 9.7704E+	02 1.8023E+03	2.1123E+03
(≜ + +	1.4242E+01	2.0421E+01	2.2409E+01	A 1.5338E+		2.3861E+01
S ,	2.2181F+00	2.4539E+00	2.56295+00	S 2.3045E+		2.6672E+00
Ž	2.7822F+00	3.4876E+00	3.7301E+00	Z 2.9251E+		3.9257E+00
GAME	7 - 284 7E - 01	7.3360E-01	7.44785-01	GAME 7.3980E-		
Ü				U 5.0458E+		
30 p	4.7633E+01.	7.8992E+00	7.9658F+00	0 3.043864	01 8.3851E+00	8.5186E+00
SPEC 1ES	, 	- MOLE FRACTIONS		SPECIES	MOLE FRACTION	s
*				•		
"E; "	6.4057E-01	7-1327E-01	7.3191E-01	E- 6.5813E		7.4527E-01
A- 1	1.8766E-04.	1.1010E-05	3.2227E-06	A 6.1570E	-05 . 3.89615-06	0.7937E-07
A+;	8.0207F-02	3.7826E-03	1.3911E-03	A+ . 3.4942E	-02.3-3 1.69945-03	5.1431E-04
A++	2.7676F-01	- 1.4127E-01		A++ 2.9739E		4.27268-02
A+++. c	2.2808E-03	1.3973E-01			-03 1.7276F-01	
A++++	2.0533E-08	1.9357E-03	8.9667E-03	A++++ 5.5037F		2.4648E-02
AV	2.2308F-16	3.6937E-07	9.1279E-06	AV 6.3321E		8.5769E-05
AVI	1.5295F-27	5.8765E-13	1.19385-10	AV1 7.7019E		5.1364E-09
IIVA						
AVIII .	3.5690E-43	3.0195F-21	9.46395-18			2.7751E-15
A 4111 .	1.13126-62	4-65355-32	3.7413E-27	AVIII 2.4040F	-55 1.2297E-28	1.05045-23
		*				
<i>:</i> .						
		·				
				•		
•				3.65		
					•	•
P1 = 5	-00E+01 N/SQ-M	US1= 1.70E+0	4- M/SEC	P1 =5.00E+01 N/	SQ-M US1= 1.80F+	04 M/SEC
The second second	*** **		•			
***	MOUTHE SHOCK	STANDING SHOCK	REFLECTED SHOCK	MONTHE SH	OCK STANDING SHOCK	REFLECTED SHOCK
	4.30916+03				03 5.7904E+04	7.9324E+04
- -			7.2192E+04			
RHO	1.0408E+02	1.6847E+02	1-8777E+02			2.01675+02
	1.4494E+01	8.7502E+01	1.0041E+02			9.7824E+01
H	9.2216E+02	1.7022E+03	1.9934E+03	H 1.0335E+		2.2337E+03
Α	1.4798E+01	2-1097E+01	2.3159F+01	A 1.5784E+		2.4529E+01
- S	2.2616F+00	2.5031E+00	2.6152E+00	S 2.3466F+	00 2-6011E+00	2.7187E+00
2	2.8563E+00	3.5813E+00	3.8291F+00	Z 2.9890E+		4.0208E+00
GAME	7.3654F-0L	7.3766F-OL	7.45975-OL	GAME 7.3402E-	01 7.4427E-01'	7.4198E-01
U	4.9054F+01	·8.1377E+00	8.2316E+00	U 5.1863E+	01 8.6540E+00	8.7823E+00
					•	•
SPECIES		- MOLE FRACTIONS		SPECIFS	MOLE FRACTION	š,
11	t.				-2,69-17 T0-99	r [] 40
E-	6.4990E-01	7.2077E-01	7.3884E-01	E- 6.6544E		7.51298-01
Α	1.1186E-04	6.6573E-06	1.6896E-06	A 3.3616E		4.6770E-07
A+	5.4670E-02	2.5651E-03	8.4862E-04	A+ 2.2031E	-02 L.0787E-03	3.1583E-04
A++ .	2.9074E-01	1.1525E-01	5.8383E-02	A++ 2.9407E	-01 7.0397E-02	3.11725-02
A+++	4.5813F-03	1.5790E-01	1.8651E-01	A+++ 1.8422E		1.8045E-01
A++++	1.0115E-07	3.5017E-03	1.5385E-02	A++++ 2.7156F		3.65465-02
AV	3.4238E-15	1.2165E-06	2.95236-05	AV 1.0126E		2.1882E-04
AVI .	9.3868E-26			AVI 5.1619F		2.5678E-08
IIVA		4-0598E-12	8.46345-10			
	1.4153E-40	5.4063E-20	1.81045-16			3.2219E-14
ITIVA	3.9390E-59	2.5505E-30	2.3023E-25	AVIII 1.0187F	-51 6.3026E-27	3.2908E-22
		•				

		•	;		
P1 = 1.00E+02 N/SQ-H,	US1= 2.00E+03 M/SEC	P1 = 1	-00F+02 N/SQ-M	, US1= 2.40E+0	3 M/SEC
		• • • •			
		•	to the second second		
MOVING SHOCK ST	ANDING SHOCK REFLECTED SHOCK		MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK
P 4.7899E+01	8.4646E+01 2.5931E+02	. o =	6.9078E+01	1.2990E+02	3.6106E+02
	1.6278E+01 2.7507E+01	i i i i i i i i i i i i i i i i i i i	1.8177E+01	2.3359E+01	3.2150E+01
1.2892E+01				5.5567E+00	
RHO 3.7155E+00	5-2002E+00 9-3824E+00		3.8002E+00		1.0964E+01
H 1.2892E+01	1.6278E+01 2.8784E+01	H,	1.8182E+01	2.3564E+01	3.8866E+01
4 3.5905E+00	4.0338E+00 4.8050E+00	- 🛕	4.2576E+00	4.6919E+00	4.9259E+00
\$ 1.0987E+00	1.0993E+00 1.1118E+00	\$	1.1181E+00	1.1188E+00	1.1314E+00
Z 1.0000E+00	1.0000E+00 1.0048E+00	Z	1.0000E+00	1.0008E+00	1.0243E+00
GAME 1.0000E+00	9.9961E-31 8.3537E-01	GAME	9.9722E-01	9.4169E-01	7.3680E-01
4.5391E+30	3.2317E+00 - 2.9823E+00	Ψ.	5.4907E+00	3.7418E+00	2.9054E+00
		•			
		•			
SPECIES	OLE FRACTIONS	, SPECIES	5	- MOLE FRACTIONS	
	• • •				
E- 1.4738E-08	2.0652E-06 4.7471E-03	E-	1.8656E-05	7.6760E-04	2.3745E-02
A 1.0000E+00	1.0000E+00 9.9051E-01	Α΄	9.9996E-01	9.9846E-01	9.5251E-01
A+ 1.4738E-08	2.0652E-06 4.7471E-03	Δ+	1.8656E-05	7.6760E-04	2.3745E-02
A++ 3.6390E-32	1.9593E-25 3.1132E-13	A++ .	7-4045E-22	3.9951E-16	9.1300E-11
A+++ 1.3149E-71	2.9459E-56 5.3723E-32	A+++	3.3942E-50	1.6604E-38	1.4325E-26
A++++ 0.	0. 9.5472E-62		0.	2.0848E-73	1.1554E-51
AV. J.	0.	AV:	0.	0.	4.6877E-85
AVI O.	0. 0.	AVI	0.	0.	0.
AVII O.	0. 0.	AVII	0.	0.	0.
AVIII O.	0. 0.	TILVA	0.	0.	0.
77		77	,	7.7	• •
			•		
	:				
	•	•		•	
	•			*	
	· ·	•			•
P1 = 1.00E+02 N/SG-M.	US1= 2.20E+03 M/SEC	91 =	1.00E+02 N/SQ-M	. US1= 2.60E+0	3 M/SEC
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	001- 21002-0	,5 H/366
	* .	•			•
MOVING SHOCK ST	TANDING SHOCK REFLECTED SHOCK		MOVENC SHOCK	STANDING SHOCK	REFLECTED SHOCK
			8.1194E+01	1.6721E+02	
P. 5.8003E+01	1.0513E+02 3.0899E+02	<u>.</u> .			4.1770E+02
1.5416E+01	1.9663E+01 3.0158E+01	'T	2.1138E+01	2.7118E+01	3.3787E+01
RHD 3.7625E+00	5.3465E+00 1.0115E+01	· RHO '	3.8403E+00	6.1356E+00	1.1909E+01
H 1.5416E+01	1.9678E+01 3.3715E+01	H	2.1196E+01	2.8466E+01	4.4364E+01
A 3.9260E+00	4.4179E+00 4.8464E+00	`A	4.5458E+00	4.7533E+00	· 5.0254E+00
\$ 1.1087E+00	1.1094E+00 1.1215E+00	· S	1.1268E+00	1.1278E+00	- 1.1419E+00
1.00000=+00	1.0001E+00 1.0130E+00	ž.	1.0002E+00	1.0050E+00	1.0381E+00
GAME 9.9983E-01	9.9256E-01 7.6885E-01	GAME	9.7737E-01	8.29048-01	7.2005E-01
U 5.0154E+00		U	5.9704E+00	3.7194E+00	
0 3.01346+00	3.5169E+00 2.9650E+00	· ·	3.91045400	3.11445.00	2.8355E+00
		•			• *
		SPEC IE		- MOLE FRACTIONS	
SPECIES	OLE FRACTIONS	SPECIE	,	- HULE PRACTIONS	
		_	2 17025 04		2 44745 00
E- 8.2399E-07	5.9294E-05 1.2814E-02	E	2.1793E-04	4.9526E-03	3.6674E-02
1.0000E+00	9.9988E-01 9.7437E-01	<u>A</u> :	9.9956E-01	9.9009E-01	9.2665E-01
A+ 8.2399E-07	5.9294E-05 1.2814E-02	A+	2.1793E-04	4.9526E-03	3.6674E-02
A++ 1.7323E-26	5.8893E-20 1.0169E-11	A++	4.1824E-18	2.6524E-13	4.6108E-10
4.6543E-61	1.0489E-46 1.0537E-28	A+++	9.3552E-43	2.6974E-32	4.7989E-25
A++++ 0.	0. 9.0500E-56	A+++	9.1739E-82	6.0396E-64	7.1355E-49
AV).	0.	AV	0.	0.	1.0641 E-80
		ĀVI	0.	0.	0.
.0 IVA		IIVA	0.	0.	
AVII J.					
	0.				0.
AVIII O.	0.	AVIII	0.	0.	0.

p, - 100 N/ m²

P1 = 1.	ODE+OS MY28-M	, US1= 2.80E+0	3 M/SEC	. P1 = 1		. 021# 3*50E40	13 W/9EC
	•	•	•	•	``		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK				REFLECTED SHOCK
P .	9.4527E+01	2.1857E+02	. 4.8442E+02	P '	1.2769E+02		7.0665E+02
T	2.4101E+01	3.0111E+01	3.5246E+01	Τ .	2.8831E+01	3.4481E+01	3.8203E+01
RHD	3.9166E+00	7.1503E+00	1.3038E+01	RHD	4.3764E+00	1.0393E+01	1.6871E+01
H-	2.4476E+01	3.4265E+01	5.0360E+01	н .	3.2100E+01	4.8219E+01	6.5441E+01
Ä	4.68835+00	4.8109E+00	5.1374E+00		4.7306E+00	5.0733E+00	5.4176E+00
Š	1.1350E+00		1.15285+00	s ·	1.1512E+00	1.1572E+00	1.1770E+00
2 .				1	1.0120E+00		1.0964E+00
	1.0014E+30	1.0152E+00		GAME		7.1135E-01	7. 0072E-01
GAME	9.1075E-01	7.5718E-01			7.6700E-01		
U	6.4657E+00	3.5268E+00	. 2.7721E+00	U	7.6634E+J0	3.2200E+00	2.6944E+00
	• •		•	•	• •	• •	
SPECIES		- MOLE FRACTIONS		SPECIES	s	- MOLE FRACTIONS	
E-	1.3976E-03	1.4935E-02	5.1324E-02	E-	1.1845E-02	4.7006E-02	8.7929E-02
A.	9.9720E-01	9.7013E-01	8.9735E-01	A .	9.7631E-01	9.0599E-01	8.2414E-01
A+ .				Ã÷	1.18456-02	4.7306E-02	8.7929E-02
	1.3976E-03	1.4935E-02	5.1324E-02	Δ++	4.2890E-12	1.02298-09	1.4721E-08
A++	2.5026E-15	1.3575E-11	. 1.6513E-09		9.9710E-30		1.1726E-21
A+++	9.5812E-37	1.6182E-28		A+++		. 2.4975E-24	1.51136-42
A++++	1.2863E-70	2.0035E-55		A++++	9.6001E-58	1.3341E-47	
AV ' . 4.	0. n m	0.	3.2456E-77	AV '	0.	9.9936E-79	1.2459E-70
AVI	o.	o	0.	IVA	. 0.	0.	0.
· JIVA	· 0.	0.	0.	IIVA	. 3.	. 0.	0.
IIIVA	0.	0.	0. "	IIIVA	0.	· 0.	0.
			•				
	-						
	·	,					
			•			•	
P1 = 1.	.00E+02 N/SO-M	, US1= 3.00E+0	3 M/SEC	P1 = 1	1.30E+02 N/SQ-N	us1= 3.40E+0	13 H/SEC
	•	•					•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	•			REFLECTED SHOCK
A. P	1.0996E+02	2.8681E+02	5.7851E+02	P	1.4704E+02	4.8672E+02	8.6540E+02
T	2.6717E+01"	3.2470E+01	3.6721E+01	T .	3.0504E+01.	3.6255E+01	3.96476+01
	4.0948E+00	8.5728E+00	1.4674E+01	RHO	4.7196E+00	1.2535E+01	1.9460E+01
H -	2.8108E+01	4.0855E+01	5.7405E+01	. н	3.6374E+01	5.6171E+01	7.4213E+01
Ä	4.7048E+00	4.9281E+00	5.2695E+00	Ä	4.7903E+00 ·	5.2286E+00	5.5744E+00
Š	1.1430E+00			ŝ	1.1596E+00	1.1685E+00	1.1903E+00
ž		1.1467E+00	1.1646E+00	ž	1.0214E+00	1.0710E+00	1.1217E+00
	1.0051E+00	1.0303E+00	1.0736E+00	GAME	7.3650E-01	7.0405E-01	6.9875E-01
GAME	8.2432E-01	7.2592E-01 ·	7.0432E-01	U -	8.3146E+00	3.1210E+00	2.66915+00
U	7.0301E+00	3.3441E+00	2.7360E+00	U -	8.31482400	3.12102400	2.00716+00
	•			SPECIE	·	- MOLE FRACTIONS	
. SPECIES		- MOLE FRACTIONS	,	SPECIE		- HULE PRACTIONS	
E-	5.0639E-03	2.9439E-02	6.8581E-02	E-	2.0947E-02	6.6318E-02	1.0846E-01
A	9.8987E-01	9.4112E-01	8.6284E-01	- A	9.5811E-01	8.6736E-01	7.8307E-01
A+	5.0639E-03	2.9439E-02	6.8581E-02	A+	2.0947E-02	6.6318E-02	1.0846E-01
A++	2.1517E-13	1.6721E-10	5.2216E-09	A++ '	3.3050E-11	4.1230E-09	
A+++	1.39206-32	4.2656E-26	1.1078E-22	A+++	8.6765E-28	5.9285E-23	9.7552E-21
A++++	4.2182E-63	6.5750E-51	1.8678E-44	A++++	3.4708E-54	5.0414E-45	8.4869E-41
AV				AV	2.2717E-89	1.1814E-74	9.3776E-68
AVI	0.	5.1062E-84	1.2923E-73	ÄVI	0.	0.	0.
	0.	o.	0.	IIVA			0.
AVII	0.	0.	0.		0.	0.	
IIIVA	٠. ر	0.	0.	IIIVA .	· 0.	0.	0.
		•	•		•		•

P1 = 1	1.00E+02 N/SQ-M.	US1= 3.60E+03	M/SEC		1 = 1.	.00E+02 N/SQ-M	. US1= 4.00E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REELECTED SHOCK			MONTHE SHOCK	STANDING SHOCK	REFLECTED SHOCK
À	1.6795E+02	6.1948E+02	1: 0553E+03	D		2.1391E+02	9.5731E+02	1.5281E+03
f,	3.1895E+01	3.7876E+01	4.1054E+01			- 3.4174E+01	4.0806E+01	4.3759E+01
RHO	5.09898+00	1.4935E+01	2.2369E+01		10	5.9068E+00	· 2.0425E+01	2.8862E+01
		6.4664E+01 -	8.3672E+01	Ĥ		5.0779E+01	. 8.3216E+01	1.0439E+02
H	4.0920E+01		5.7378E+00	Ä		5.0462E+00	5.7170E+00	
Α .	4.8685E+00	5.3890E+00	1.2044E+00	Š			1.2077E+00	1.2351E+00
S	1.1685E+00	1.1808E+00	1.1492E+00	ž		1.1878E+00 1.0597E+00	1.1486E+00	1.2351E+00
2	1.0327E+00	1.0951E+00			ME			
GANE	7.1958E-01	7.0019E-01	6.9782E-01	U			6.9732E-01 2.9739E+00	6.9783E-01
U	8.9769E+00	3.0582E+00	2.6552E+00	٠, ٠		1.0303E+01	2.7/376400	2.6536E+00
SPECIE		- MOLE FRACTIONS		s	SEC IE S		, - MOLE FRACTIONS	,
	•							•
E-	3.1685E-02	8.6830E-02	1.2981E-01		4	5.6336E-02	1.2938E-01	1.7352E-01
A	9.3663E-01 '			A		8.8733E-01	7.4124E-01	6.5296E-01
A+ -	3.1685E-02	8.6830E-02	1.29816-01	∠A+		5.6336E-02	1.2938E-01	1.7352E-01
A++	1.5042E-10	1.2882E÷08	8.3670E-08	A+		1.32898-09	. 7.7442E-08	- 3.4345E-07
4+++	2.4534E-26	8.1238E-22 ·	6.5789E-20	A+	· •	3.0985E-24	5.2224E-20	1.7925E+18
A++++	1.7502E-51	7.23726-43	3.1737E-39	A+	+++	1.3606E-47	1.9133E-39	1.5972E-36
AV	5.4772E-85	4.0863E-71	3.2962E-65	. AV		8.1013E-79	1.3198E-65	6.0772E-61
AVI	0.	0.	0.	AV	I	• 0•	0.	0.
AVII	0.	0.	0.	AV	11	o.	0.	. 0.
IIIVA	0.	0.	0.	AV	111	0.	0.	0.
			•					
			•			•		
						•		
			•					
P1 =	1.00E+02 N/SQ-M	. US1= 3.80E+0	3 M/SEC		1 = 1.	.00E+02 N/SQ-M	. US1= 4.20E+0	3 M/SEC
P1 =		. US1= 3.80E+0	3 M/SEC)1 = 1.	.00E+02 N/SQ-M	, USI= 4.20E+0	3 M/SEC
P1 =	1.00E+02 N/SQ-M		· ·)1 = 1.			•
	1.00E+02 N/SQ-M MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02	STANDING SHOCK 7.7679E+02	REFLECTED SHOCK 1.2762E+03	Р	•	MOVING SHOCK 2.3884E+02	STANDING SHOCK 1.1643E+03	REFLECTED SHOCK 1.8119E+03
P. T	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01	STANDING SHOCK 7.7679E+02 3.9382E+01	REFLECTED SHOCK 1.2762E+03 4.2423E+01	P T		MDVING SHOCK 2.3884E+02 3.5155E+01	STANDING SHOCK 1.1643E+03 4.2174E+01	REFLECTED SHOCK 1.8119E+03 4.5069E+01
P T RHO	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01	P T R	1 0	MDV ING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00	STANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01
P. T	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01	P T R H	1 0	MDVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01	STANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02
P T RHO H	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5514E+00	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.9060E+00	P T R	1 0	MDV ING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00	STANDING SHOCK 1-1643E+03 4-2174E+01 2-3436E+01 9-3242E+01 5-8849E+00	REFLECTED SHOCK 1.8119F+03 4.5069F+01 3.2346F+01 1.1560F+02 6.2549F+00
P T RHO H A	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.309E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.1779E+00	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.9060E+00 1.2194E+00	P T R H A S	1 0	MOVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+00 1.1982E+00	STANDING SHOCK 1-1643E+03 4-2174E+01 2-3436E+01 9-3242E+01 5-8849E+00 1-2224E+00	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00
P T RHO H A S	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.572E+01 4.9553E+00 1.1779E+00 1.0456E+00	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 1.1209E+00	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.9060E+00 1.2194E+00 1.1787E+00	P T R A S S	1 0	MOVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.1982E+00	\$TANDING \$HOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.1780E+00	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2246E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00
P. T. RHO H. A. S. Z. GAME	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.9753E+00 1.1779E+00 1.0456E+00 7.0953E-01	STANDING SHOCK 7-7679E+02 3-9382E+01 1-7597E+01 7-3704E+01 5-5518E+00 1-1938E+00 1-1209E+00 6-9822E-01	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.906.0E+00 1.2194E+00 1.1787E+00 6.9758E-01	P T R A S Z Z	10 AME	MDVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.1982E+00 1.0750E+00 6.9898E-01	STANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.780E+00 6.9711E-01	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01
P T RHO H A S	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.572E+01 4.9553E+00 1.1779E+00 1.0456E+00	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 1.1209E+00	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.9060E+00 1.2194E+00 1.1787E+00	P T R A S S	10 AME	MOVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.1982E+00	\$TANDING \$HOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.1780E+00	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00
P. T RHO H A S S Z GAME	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.309E+01 5.4979E+00 4.97553E+00 1.1779E+00 1.0456E+00 7.095E+01 9.6412E+00	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 6.9822E-01 3.0021E+00	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.9060E+00 1.2134E+00 1.1787E+00 6.97758E-01 2.6505E+00	P T R H A S Z G U	40 AME	MDVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.1982E+00 1.0750E+00 6.9898E-01 1.0961E+01	\$TANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.1780E+00 6.9711E-01 2.9456E+00	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01 2.6635E+00
P. T. RHO H. A. S. Z. GAME	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.309E+01 5.4979E+00 4.97553E+00 1.1779E+00 1.0456E+00 7.095E+01 9.6412E+00	STANDING SHOCK 7-7679E+02 3-9382E+01 1-7597E+01 7-3704E+01 5-5518E+00 1-1938E+00 1-1209E+00 6-9822E-01	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.9060E+00 1.2134E+00 1.1787E+00 6.97758E-01 2.6505E+00	P T R H A S Z G U	10 AME	MDVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.1982E+00 1.0750E+00 6.9898E-01 1.0961E+01	STANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.780E+00 6.9711E-01	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01 2.6635E+00
P. T RHO H A S S Z GAME	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.075E+00 1.0456E+00 7.0953E-01 9.6412E+00	STANDING SHOCK 7-7679E+02 3-9382E+01 1-7597E+01 7-3704E+01 5-5518E+00 1-1938E+00 1-1209E+00 6-9822E-01 3-0021E+00	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.906.0E+00 1.2194E+00 1.1787E+00 6.9758E-01 2.6505E+00	P T R H A S Z G U	40 AME	MDVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.1982E+00 1.0750E+00 6.9898E-01 1.0961E+01	STANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.1780E+00 6.9711E-01 2.9456E+00	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01 2.6635E+00
P T RHO H A S Z GAME U	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.1779E+00 1.0456E+00 7.0953E-01 9.6412E+00	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 1.1209E+00 6.9822E-01 3.0021E+00	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.9060E+00 1.2194E+00 1.1787E+00 6.9758E-01 2.6505E+00	P T R H A S Z G U	40 AME	MDVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.1982E+00 1.0750E+00 6.9898E-01 1.0961E+01	STANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.1780E+00 6.9711E-01 2.9456E+00 - MOLE FRACTIONS 1.5109E-01	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01 2.6635E+00
PTRHOHA A S CAME U SPECIE	1.00E+02 N/SQ-M MOVING SHUCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.075E+00 7.0953E-01 9.6412E+00 S	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 6.9822E-01 3.0021E+00 -MOLE FRACTIONS 1.0789E-01 7.8422E-01	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.906.0E+00 1.2194E+00 6.9758E-01 2.6505E+00	P T R H A S Z G U	40 AME	MOVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.1982E+00 1.0750E+00 0.9898E-01 1.0961E+01	\$TANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 6.9711E-01 2.9456E+00 - MOLE FRACTIONS 1.5109E-01 6.978ZE-01	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01 2.6635E+00
PTRHOHAASS2GAMEU	1.00E+02 N/SQ-M MOVING SHDCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.0756E+00 7.0953E-01 9.6412E+00 S	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 1.1209E+00 6.9822E-01 3.0021E+00 - MOLE FRACTIONS 1.0789E-01 7.8422E-01 1.0789E-01	REFLECTED SHOCK 1.2762E+03 4.2425E+01 2.5522E+01 9.3744E+01 5.9060E+00 1.2194E+00 1.1787E+00 6.9758E-01 2.6505E+00	P T R H A S Z G U S S E- A	AME PECIES	MDVING SHDCK 2-3884E+02 3-5155E+01 6-3200E+00 5-6084E+01 5-1395E+00 1-0750E+00 6-9898E-01 1-0961E+01	STANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.780E+00 6.9711E-01 2.9456E+00 - MOLE FRACTIONS 1.5109E-01 6.9782E-01 1.5109E-01	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01 2.6635E+00
PT TRHO HA A S Z GAME U SPECIE	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.7779E+00 1.0456E+00 7.0953E-01 9.6412E+00 S	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 6.9822E-01 3.0021E+00	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.9060E+00 1.1787E+00 6.9758E-01 2.6505E+00 1.5158E-01 6.9684E-01 1.5158E-01 1.7523E-01	P T R H A S Z G U S E- A A+	HO AME	MOVING SHOCK 2-3884E+02 3-5155E+01 6-3200E+00 5-6084E+01 5-1395E+00 1-1982E+00 1-0750E+00 6-9898E-01 1-0961E+01 6-9745E-02 8-6051E-01 6-9745E-02 3-0751E-09	\$TANDING \$HOCK 1.1643E+03 4-2174E+01 2.3436E+01 5.8849E+00 1.2224E+00 1.1780E+00 6-9711E-01 2.9456E+00 	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01 2.6635E+00 1.9545E-01 6.0910E-01 1.9545E-01 6.3850E-07
P T RHO H A S Z GAME U SPECIE E-A A+++	1.00E+02 N/SQ-M MOVING SHUCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.075E+00 7.0953E-01 9.6412E+00 S 4.3584E-02 4.3584E-02 4.9533E-10 3.2609E-25	STANDING SHDCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 1.1209E+00 6.9822E-01 3.0021E+00 MOLE FRACTIONS 1.0789E-01 1.0789E-01 3.3608E-08 7.4556E-21	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.9060E+00 1.2194E+00 1.1787E+00 6.9758E-01 2.6505E+00 1.5158E-01 6.9684E-01 1.5158E-01 1.7523E-07 3.7022E-19	P T R H A S Z G U S E- A A+ A+ A+	ME PECIES	MDVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.0750E+00 0.9898E-01 1.0961E+01	STANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.1780E+00 6.9711E-01 2.9456E+00 - MOLE FRACTIONS 1.5109E-01 6.9782E-01 1.5109E-01 1.6286E-07 2.9902E-19	REFLECTED SHOCK 1.8119+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01 2.6635E+00 1.9545E-01 6.0910E-01 1.9545E-01 6.3850E-07 7.7878E-18
P. T. RHO H. A. S. Z. GAME U. SPEC IE E-A. A++++++	1.00E+02 N/SQ-M MOVING SHUCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.0756E+00 7.0953E-01 9.6412E+00 S	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 1.1209E+00 6.9822E-01 3.0021E+00 - MOLE FRACTIONS 1.0789E-01 7.8422E-01 3.3608E-08 7.4556E-21 4.6870E-41	REFLECTED SHOCK 1.27622E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.9060E+00 1.2194E+00 1.1787E+00 6.9758E-01 2.6505E+00 1.5158E-01 6.9684E-01 1.7523E-07 3.7022E-19 8.3409E-38	P T R H A S Z G U S E- A A+ A+ A+	HO AME	MDVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.1982E+00 1.0750E+00 6.9898E-01 1.0961E+01 6.9745E-02 8.6051E-01 6.9745E-02 3.0751E-09 2.0470E-23 4.6771E-46	STANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.780E+00 6.9711E-01 2.9456E+00 - MOLE FRACTIONS 1.5109E-01 6.9782E-01 1.6286E-07 2.9902E-19 5.3416E-38	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01 2.6635E+00 1.9545E-01 6.0910E-01 1.9545E-01 6.3850E-07 7.7878E-18 2.6637E-35
P T RHO H A S . Z GAME U SPECIE E A A+++ A++++ A ++++ A V	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.0745E+00 7.0953E-01 9.6412E+00 S	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 6.9822E-01 3.0021E+00 - MOLE FRACTIONS 1.0789E-01 7.8422E-01 1.0789E-01 3.3608E-08 7.4556E-21 4.6870E-41 2.9308E-68	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.906.0E+00 1.1787E+00 6.9758E-01 2.6505E+00 1.5158E-01 6.9684E-01 1.5158E-01 1.7523E-07 3.7022E-19 8.3409E-38 6.3934E-63	PT TR HA A S Z Z G U U S E-A A + A + A + A + A + A + A + A + A + A	AME PECIES	MOVING SHOCK 2-3884E+02 3-5155E+01 6-3200E+00 5-6084E+01 5-1395E+00 1-1982E+00 1-0750E+00 6-9898E-01 1-0961E+01 	\$TANDING \$HOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.1780E+00 6.9711E-01 2.9456E+00 - MOLE FRACTIONS 1.5109E-01 1.5109E-01 1.5109E-01 2.9902E-19 5.3416E-38 3.0364E-63	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2429E+00 6.9842E-01 2.6635E+00 1.9545E-01 6.0910E-01 1.9545E-01 6.3850E-07 7.7878E-18 2.6637E-35 6.6584E-59
P T RHO H A S Z GAME U SPECIE E-A A+++ A++++ AV AV I	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.075E+00 7.0953E-01 9.6412E+00 S 4.3584E-02 4.9533E-01 4.3584E-02 4.9533E-10 3.2609E-25 1.0724E-49 2.7473E-81 0.	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 1.1209E+00 6.9822E-01 3.0021E+00 - MOLE FRACTIONS 1.0789E-01 7.8422E-01 1.0789E-01 3.3608E-08 7.4556E-21 4.6870E-41 2.9308E-68 0.	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.906.0E+00 1.2194E+00 1.1787E+00 6.9758E-01 2.6505E+00 1.5158E-01 1.5158E-01 1.5158E-01 1.7523E-07 3.7022E-19 8.3409E-38 6.3934E-63 0.	P T R H A S Z G U S E - A + A + A + A + A + A + A + A + A + A	AME PECIES	MDVING SHOCK 2.3884E+02 3.5155E+01 6.3200E+00 5.6084E+01 5.1395E+00 1.1982E+00 1.0750E+00 6.9898E-01 1.0961E+01	STANDING SHOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.2224E+00 2.9456E+00 - MOLE FRACTIONS 1.5109E-01 6.9782E-01 1.5109E-01 1.6286E-07 2.9902E-19 5.3416E-38 3.0364E-63 0.	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2516E+00 1.2429E+00 6.9842E-01 2.6635E+00 1.9545E-01 6.0910E-01 1.9545E-01 6.3850E-07 7.7878E-18 2.6637E-39 3.4579E-89
PT RHO H A S S GAME U SPECIE E-A A+++ A++++ A V	1.00E+02 N/SQ-M MOVING SHOCK 1.9027E+02 3.3099E+01 5.4979E+00 4.5724E+01 4.9553E+00 1.0745E+00 7.0953E-01 9.6412E+00 S	STANDING SHOCK 7.7679E+02 3.9382E+01 1.7597E+01 7.3704E+01 5.5518E+00 1.1938E+00 6.9822E-01 3.0021E+00 - MOLE FRACTIONS 1.0789E-01 7.8422E-01 1.0789E-01 3.3608E-08 7.4556E-21 4.6870E-41 2.9308E-68	REFLECTED SHOCK 1.2762E+03 4.2423E+01 2.5522E+01 9.3744E+01 5.906.0E+00 1.1787E+00 6.9758E-01 2.6505E+00 1.5158E-01 6.9684E-01 1.5158E-01 1.7523E-07 3.7022E-19 8.3409E-38 6.3934E-63	P T R H A S Z G U S E- A A+ A+ A+ A+ AV AV	AME PECIES	MOVING SHOCK 2-3884E+02 3-5155E+01 6-3200E+00 5-6084E+01 5-1395E+00 1-1982E+00 1-0750E+00 6-9898E-01 1-0961E+01 	\$TANDING \$HOCK 1.1643E+03 4.2174E+01 2.3436E+01 9.3242E+01 5.8849E+00 1.2224E+00 1.1780E+00 6.9711E-01 2.9456E+00 - MOLE FRACTIONS 1.5109E-01 1.5109E-01 1.5109E-01 2.9902E-19 5.3416E-38 3.0364E-63	REFLECTED SHOCK 1.8119E+03 4.5069E+01 3.2346E+01 1.1560E+02 6.2549E+00 1.2429E+00 6.9842E-01 2.6635E+00 1.9545E-01 6.0910E-01 1.9545E-01 6.3850E-07 7.7878E-18 2.6637E-35 6.6584E-59

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	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	* *	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	2.6502E+02	1.3960E+03	2.1263E+03	. P	3.2130E+02	1.9407E+03	2.8649E+03
T	3.6068E+01	4.3490E+01	4.6351E+01	T	3.7730E+01	4.6032E+01	4.8923E+01
RHO	6.7322E+00	2.6553E+01	3.5916E+01	RHO	7.5566E+00	3.3064E+01	4.3335E+01
н	6.1639E+01	1.0373E+02		н	7.3507E+01	1.2620E+02	1.5254E+02
Ä	5.2350E+00	6.0550E+00	6.4341E+00	Ä	5.4282E+00	6.4043E+00	6.8109E+00
Š	1.20916+00	1.2379E+00	1.2687E+00	ŝ	1.23216+00	1.2710E+00	1.3053E+00
2			1.2772E+00	ž	1.1269E+00	1.2751E+00	1.3513E+00
	1.0914E+00	1.2085E+00		GAME	6.9300E-01	6.9878E-01	7.0168E-01
GAME	6.9616F-01	6.9736E-01	6.9928E-01	U	1.2917E+01	2.9622E+00	2.7196E+00
U	1.1615E+01	2.9370E+00	2.6667E+00		1.291/2401	2. 70222.00	2.11702.00
				-			
SPECIE	s	- MOLE FRACTIONS		SPEC IE	s	MOLE FRACTIONS	
E-	8.3766E-02	1.7277E-01	2.1705E-01	· E-	1.1264E-01	2.1574E-01	2.59998-01
Ā	8.3247E-01	6.5446E-01	5-6589E-01	Ā	7.7472E-01	5.6852E-01	4.8032E-01
Ā+	8.3766E-02	1.7277E-01	2.1705E-01	A+	1.1264E-01	2.1574E-01	2.5998E-01
A++	6.4134E-09	3.1795E-07	1.13188-06	A++	2.2032E-08	1.0370E-06	3.2702E-06
A+++	1.0585E-22	1.4371E-18		A+++	1.7101E-21	2.3654E-17	3.8192E-16
A++++	9.5421E-45	1.0192E-36	3.59756-34	A++++	1.4620E-42	2.0872E-34	1.3449E-32
				AV	4.3905E-71	1.7418E-57	1.1009E-53
AV	2.5057E-74	3.1071E-61	4.8095E-57			3.8204E-87	2.4614E-81
IVA	0.	0.	2.7134E-86	AVI	0.		
AVII	,0.	0.	0.	IIVA	0.	0.	0.
AVIII .	'0•	• 0.	0.	AVIII	0.	0.	0.
			•				
			•	•			
P1 =	1.00E+02 N/SQ-	1, US1= 4.60E+0	3 M/SEC	P1 = 1	1.00E+02 N/SQ-N	4. US1= 5.00E+0	3 M/SEC
_					•		
	MUNING SHOCK	STANDING SHOCK		2	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
' Р	2.9268E+02	1.6564E+03	2.4814E+03	P	3.5116E+02		3.2833E+03
Ť.	3.6920E+01	4.4780E+01	4.7646E+01	Ť	3.8505E+01	4.7268E+01	5.0204E+01
RHO			3.9644E+01	RHD	7.9572E+00	3.6373E+01	
H	7.1503E+00	2.9797E+01		#	7.9809E+01	1.3810E+02	1.6595E+02
	6.7456E+01	1.1477E+02	1.3968E+02	Ä		6.5832E+00	7.0062E+00
A	5.3309E+00	6.2288E+00	6.6211E+00	Š	5.5269E+00		
S	1.2203E+00	1.2542E+00	1.2868E+00		1.2443E+00	1.2885E+00	1.3245E+00
Z	1.1087E+30	1.2414E+00	1.3137E+00	2	1.1461E+00	1.3102E+00	1.3904E+00
GAME	6.9428E-01	6.9795E-01	7.0038E-01	GAME	6.9217E-01	6.9983E-01	7.0320E-01
. U	1.2274E+01	2.9501E+00	2.6902E+00	U	1.3556E+01	2.9800£+00	2.7536E+00
			•		•		
SPEC IE	s	MOLE FRACTIONS		SPECIE	s	MOLE FRACTIONS	
E-	9.8016E-02	1.9445E-01	2.3879€-01	E	1.2750E-01	2.36738-01	2.8079E-01
A	8.0397E-01	6.1109E-01	5.2242E-01	Ã	7.4501E-01	5.2654E-01	4.3843E-01
Ä+	9.8016E-02			Ã÷	1.2750E-01		
		1.9445E-01	2.3879E-01	A++			5.3475E-06
A++	1.2252E-08	5.8898E-07	1.9569E-06		.3.7672E-08		
A+++	4.5118E-22	6.1975E-18	1.1205E-16	A+++	5.8219E-21		1.24026-15
A++++	1.1993E-43	1.6767E-35	- 4.2716E-33	A+++	1.4923E-41	2.33326-33	4.0215E-31
AV	1.0917E-72	3.2420E-59	2.6259E-55	AV	7.8174E-70	9.23946-56	3.9431E-52
AVI	0.	0.	1.0062E-83	AVI	Q.	1.9700E-84	4.7132E-79
IIVA	0.	0.	0.	AVII	0.	0.	0
AVILI	0.	0.	0.	IJIVA	э.	0.	0.

p, = 100 N/ m

MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.8225E02 2.5998E03 3.7371E03 P 4.6812E02 3.3016E03 5.407EE03 P 4.6812E02 3.3016E03 5.407EE03 F 4.6812E02 3.3016E03 5.407EE03 6.407EE03 6.407E	P1 = 1	1.00E+02 N/SQ-M	. US1= 5.20E+0	3 M/SEC		P1 = 1	1.00E+02 N/SQ-M	 US1= 5.60E+0 	3 M/SEC
P 3.8225E-02 2.5958E-03 3.7371E-03 P 4.4812E-02 3.3614E-03 4.7526E-03 T 3.7321E-01 5.0901E-01 5.174E-01 5.0901E-01 5.0901									
P 3.8225E-02 2.5958E-03 3.7371E-03 P 4.4812E-02 3.3614E-03 4.7526E-03 T 3.7321E-01 5.0901E-01 5.174E-01 5.0901E-01 5.0901		HOUTHE SHOEK	STANDING SHOCK	REELECTED SHOCK			MONTHS SHOCK	STANDING SHOCK	DEELECTED CHOCK
T 3.9251E-01 4.8501E-01 5.1500E+01 T 4.078E-01 5.0961E+01 5.4174E-01 MN 9.1120E+00 4.034F-01 5.7874E-01 MN 9.1120E+00 7.140E+00 7.092E-01 7.093E-01 7.0									
RNO 8.3507E-00 3.97746-01 5.0713E-01 RNO 9.1120E-00 4.6347E-01 5.78746-01 H 8.634E+01 1.5053E-02 1.792E-02 H 1.5053E-02 1.792E-02 1.767E-02 2.993T+02 1 4 5.626E-00 6.766E-02 1.7072E-00 A 5.831E+00 7.1465E-00 7.2072E-00 2 1.727E-00 A 5.831E+00 7.1465E-00 7.2072E-00 2 1.727E-00 A 5.831E+00 7.1465E-00 7.2072E-00 2 1.727E-00 A 5.831E+00 7.1465E-00 7.2072E-00 B 1.2072E-00 D 1.3462E-01 1.3462E-00 1.3402E-01 D 1.3462E-01 7.0108E-01 7.0495E-01 GAME 6.9140E-01 7.0416E-01 7.0495E-01 GAME 6.9140E-01 7.0416E-01 7.0495E-01 GAME 6.9140E-01 7.0416E-01 7.042E-00 C.792E+00 U 1.5455E-01 3.042E-00 D 2.8848E-00 C.792E+00 U 1.5455E-01 3.042E-00 D 2.8848E-00 C.792E-00 U 1.5455E-01 3.042E-01 3.042E-01 A 7.1496E-01 4.6519E-01 3.0112E-01 A 6.5429E-01 4.0513E-01 3.14939E-01 A 7.1496E-01 2.7574E-01 3.0112E-01 A 6.1813E-03 2.753E-01 3.0773E-01 A 6.1813E-03 2.753E-01 3.0773E-01 A 6.1813E-03 2.753E-03 3.042E-01 A 7.1496E-01 2.7574E-03 3.103E-03 A 7.1496E-03 2.753E-03 A 7.00E-30 A 7.14918E-08 3.3106E-54 1.2591E-50 A 7.14918E-08 3.3106E-54 1.2591E-08 A 7.14918E-08 3.3106E-54 1.2591E-08 A 7.14918E-08 3.3106E-54 1.2591E-08 A 7.14918E-08 3.3106E-09 3.14918E-08 3.3106E-09 3.22978E-01 A 7.14918E-00 3.3106E-00 3.						- <u>-</u>			
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\$ \$.0238E*00					٠٠.				
\$ 1.2570E-00 1.3405E-00 1.3405E-00 2 1.2836E-00 1.344EE-00 1.3459E-00 1.346E-00 1.3409E-00 1.3409E-									
1.1602E+00									
CAME 6.9167E-01 7.0108E-01 7.0495E-01 CAME 6.9140E-01 7.0418E-01 7.093E-01 7.093E-01 7.0418E-01 7.093E-01 7.093E-01 7.0418E-01 7.093E-01 7.0418E-01 7.093E-01 7.093E	-					• •			
1.4192E+01 2.9854E+00 2.7923E+00 U 1.5655E+01 3.0427E+00 2.886E+00						L			
SPECIES									
E- 1.4252E-01 2.5741E-01 3.0114E-01 E- 1.7285E-01 2.9734E-01 3.4032E-01 A 7.1496E-01 4.8519E-01 3.9773E-01 A 6.5429E-01 4.0533E-01 3.1939E-01 A+ 1.4252E-01 2.5740E-01 3.0112E-01 A 6.5429E-01 4.0533E-01 3.1939E-01 A+ 1.4252E-01 2.5740E-01 3.0112E-01 A+ 1.7285E-01 2.9733E-01 3.4027E-01 A+ 1.4252E-01 2.9733E-01 3.027E-01 A+ 1.5109E-07 7.4625E-06 2.1621E-05 A+++ 1.8149E-02 2.7837E-16 3.8853E-15 A+++ 1.4377E-19 2.6507E-15 3.771E-14 A++++ 1.3119E-40 2.2536E-32 3.4700E-30 A++++ 7.2118E-39 1.5807E-30 2.2478E-28 AVI 0. 2.2336E-32 3.4700E-30 A+++ 7.2118E-39 1.5807E-30 2.2478E-28 AVI 0. 2.8163E-82 7.5993E-77 AVI 0. 6.7534E-78 1.2369E-72 AVII 0. 0. 0. 0. AVII 0. 0. 6.7534E-78 1.2369E-72 AVII 0. 0. 0. 0. AVII 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	U	1.4192E+01	2.9854E+00	2.7923E+00		U	1.5455E+01	3.0427E+00	2 • 88 • 8E +00
E- 1.4252E-01 2.5741E-01 3.0114E-01 E- 1.7285E-01 2.9734E-01 3.4032E-01 A 7.1496E-01 4.8519E-01 3.9773E-01 A 6.5429E-01 4.0533E-01 3.1939E-01 A+ 1.4252E-01 2.5740E-01 3.0112E-01 A 6.5429E-01 4.0533E-01 3.1939E-01 A+ 1.4252E-01 2.5740E-01 3.0112E-01 A+ 1.7285E-01 2.9733E-01 3.4027E-01 A+ 1.4252E-01 2.9733E-01 3.027E-01 A+ 1.5109E-07 7.4625E-06 2.1621E-05 A+++ 1.8149E-02 2.7837E-16 3.8853E-15 A+++ 1.4377E-19 2.6507E-15 3.771E-14 A++++ 1.3119E-40 2.2536E-32 3.4700E-30 A++++ 7.2118E-39 1.5807E-30 2.2478E-28 AVI 0. 2.2336E-32 3.4700E-30 A+++ 7.2118E-39 1.5807E-30 2.2478E-28 AVI 0. 2.8163E-82 7.5993E-77 AVI 0. 6.7534E-78 1.2369E-72 AVII 0. 0. 0. 0. AVII 0. 0. 6.7534E-78 1.2369E-72 AVII 0. 0. 0. 0. AVII 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.						•	•		
T. 1496E-01	SPECIES	s	- MOLE FRACTIONS			SPECIE	s	- MOLE FRACTIONS	
T. 1496E-01	E_	1 42525-01	2. 5741 6-01	3-0114F=01		F-	1.72855-01	2. 9734F-01	3-4032F=01
## 1.4252E-01 2.5740E-01 3.012E-01 A+ 1.7285E-01 2.9733E-01 3.027E-01 A+ 1.7285E-01 2.9733E-01 3.027E-01 A++ 1.5109E-07 7.4625E-06 2.1621E-05 A+++ 1.5109E-07 7.4625E-06 2.1621E-05 A+++ 1.5109E-07 7.4625E-06 2.1621E-05 A+++ 1.5109E-00 2.7637E-16 3.8835E-15 A+++ 1.5109E-07 7.4625E-06 2.1621E-05 A++++ 1.3119E-08 3.3106E-54 1.2591E-50 A+++ 7.2118E-39 1.5807E-30 2.2478E-51 9.8792E-48 AV 1.4919E-08 3.3106E-54 1.2591E-50 AV 6.9169E-65 3.1328E-51 9.8792E-48 AV 1.4919E-08 3.3106E-54 1.2599E-77 AVI 0. 6.7534E-78 1.2369E-72 AVII 0. 0. 0. 0. 0. 0. AVIII 0. 0. 7534E-78 1.2369E-72 AVII 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.									
### 6.1813E-08 2.9153E-06 8.6024E-06 A++ 1.5109E-07 7.4625E-06 2.1621E-05 ### 1.8149E-02 2.7837E-16 3.8833E-15 A+++ 1.437TE-19 2.550TE-15 3.59TTE-14 ### 1.3119E-40 2.2356E-32 3.4700E-30 A+++ 7.2118E-39 1.580TE-30 2.2478E-28 ### 1.4919E-68 3.3106E-54 1.2591E-50 AY 6.9169E-65 3.3128E-51 9.879ZE-48 ### 10									
### 1.8149E-20 2.7837E-16 3.8833E-15									
A++++ 1.3119E-40 2.2356E-32 3.4700E-30 A++++ 7.2118E-39 1.580TE-30 2.2478E-28 AVI 0.14919E-68 3.3106E-54 1.2591E-50 AV 6.9169E-65 3.1328E-51 9.8732E-48 AVI 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.									
AV 1.4919E-68 3.3106E-54 1.2591E-50 AV 6.9169E-65 3.1328E-51 9.8792E-48 AVI 0. 6.7534E-78 1.2369E-72 AVII 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.									
AVII 0. 0. 0. 0. AVIII 0. 0. 0. AVIII 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. AVIII 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.									
NOVING SHOCK STANDING SHOCK REFLECTED SHOCK P1 = 1.00E+02 N/SQ-M, US1= 5.80E+03 M/SEC									
AVIII 0. 0. 0. AVIII 0. 0. 0. O. P1 = 1.00E+02 N/SQ-M, US1= 5.40E+03 M/SEC P1 = 1.00E+02 N/SQ-M, US1= 5.80E+03 M/SEC P1 = 1.00E+02 N/SQ-M, US1= 5.80E+02 M/SQ-M, US1= 5.80E+02 M/SQ-M, US1= 5.80E+03 M/SEC P1 = 1.00E+02 N/SQ-M, US1= 5.80E+02 M/SQ-M, US1= 5.80E+02 M/SQ-M, US1= 5.80E									
P1 = 1.00E+02 N/SQ-M, US1= 5.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P									
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1457E+02 2.9646E+03 4.2267E+03 P 4.8315E+02 3.792ZE+03 5.3229E+03 T 3.9974E+01 4.9728E+01 5.2819E+01 T 4.1368E+01 5.221E±01 5.5593E+01 RHO 8.7360E+00 4.3066E+01 5.4336E+01 RHO 9.4826E+00 4.962IE+01 6.1354E+01 H 9.3170E+01 1.634IE+02 1.9446E+02 H 1.0755E+02 1.9070E+02 2.2539E+02 A 5.728ZE+00 6.9542E+00 7.4158E+00 A 5.9359E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3601E+00 S 1.270IE+00 1.3250E+00 1.3645E+00 S 1.274E+00 1.3637E+00 1.4067E+00 Z 1.187ZE+00 1.3633E+00 1.4727E+00 Z 1.2317E+00 1.4635E+00 1.5606E+00 GAME 6.9154E-01 7.0605E-01 7.121ZE-01 U 1.4825E+01 3.011ZE+00 2.8359E+00 U 1.609IE+01 3.0795E+00 2.939ZE+00 SPECIES	AVIII	0.	0.	٠.		WALLI	. 0.	0.	0.
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1457E+02 2.9646E+03 4.2267E+03 P 4.8315E+02 3.792ZE+03 5.3229E+03 T 3.9974E+01 4.9728E+01 5.2819E+01 T 4.1368E+01 5.221E±01 5.5593E+01 RHO 8.7360E+00 4.3066E+01 5.4336E+01 RHO 9.4826E+00 4.962IE+01 6.1354E+01 H 9.3170E+01 1.634IE+02 1.9446E+02 H 1.0755E+02 1.9070E+02 2.2539E+02 A 5.728ZE+00 6.9542E+00 7.4158E+00 A 5.9359E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3601E+00 S 1.270IE+00 1.3250E+00 1.3645E+00 S 1.274E+00 1.3637E+00 1.4067E+00 Z 1.187ZE+00 1.3633E+00 1.4727E+00 Z 1.2317E+00 1.4635E+00 1.5606E+00 GAME 6.9154E-01 7.0605E-01 7.121ZE-01 U 1.4825E+01 3.011ZE+00 2.8359E+00 U 1.609IE+01 3.0795E+00 2.939ZE+00 SPECIES		•							•
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1457E+02 2.9646E+03 4.2267E+03 P 4.8315E+02 3.792ZE+03 5.3229E+03 T 3.9974E+01 4.9728E+01 5.2819E+01 T 4.1368E+01 5.221E±01 5.5593E+01 RHO 8.7360E+00 4.3066E+01 5.4336E+01 RHO 9.4826E+00 4.962IE+01 6.1354E+01 H 9.3170E+01 1.634IE+02 1.9446E+02 H 1.0755E+02 1.9070E+02 2.2539E+02 A 5.728ZE+00 6.9542E+00 7.4158E+00 A 5.9359E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3601E+00 S 1.270IE+00 1.3250E+00 1.3645E+00 S 1.274E+00 1.3637E+00 1.4067E+00 Z 1.187ZE+00 1.3633E+00 1.4727E+00 Z 1.2317E+00 1.4635E+00 1.5606E+00 GAME 6.9154E-01 7.0605E-01 7.121ZE-01 U 1.4825E+01 3.011ZE+00 2.8359E+00 U 1.609IE+01 3.0795E+00 2.939ZE+00 SPECIES		•	•	•					
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1457E+02 2.9646E+03 4.2267E+03 P 4.8315E+02 3.792ZE+03 5.3229E+03 T 3.9974E+01 4.9728E+01 5.2819E+01 T 4.1368E+01 5.221E±01 5.5593E+01 RHO 8.7360E+00 4.3066E+01 5.4336E+01 RHO 9.4826E+00 4.962IE+01 6.1354E+01 H 9.3170E+01 1.634IE+02 1.9446E+02 H 1.0755E+02 1.9070E+02 2.2539E+02 A 5.728ZE+00 6.9542E+00 7.4158E+00 A 5.9359E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3601E+00 S 1.270IE+00 1.3250E+00 1.3645E+00 S 1.274E+00 1.3637E+00 1.4067E+00 Z 1.187ZE+00 1.3633E+00 1.4727E+00 Z 1.2317E+00 1.4635E+00 1.5606E+00 GAME 6.9154E-01 7.0605E-01 7.121ZE-01 U 1.4825E+01 3.011ZE+00 2.8359E+00 U 1.609IE+01 3.0795E+00 2.939ZE+00 SPECIES	٠.		t.					•	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1457E+02 2.9646E+03 4.2267E+03 P 4.8315E+02 3.792ZE+03 5.3229E+03 T 3.9974E+01 4.9728E+01 5.2819E+01 T 4.1368E+01 5.221E±01 5.5593E+01 RHO 8.7360E+00 4.3066E+01 5.4336E+01 RHO 9.4826E+00 4.962IE+01 6.1354E+01 H 9.3170E+01 1.634IE+02 1.9446E+02 H 1.0755E+02 1.9070E+02 2.2539E+02 A 5.728ZE+00 6.9542E+00 7.4158E+00 A 5.9359E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3601E+00 S 1.270IE+00 1.3250E+00 1.3645E+00 S 1.274E+00 1.3637E+00 1.4067E+00 Z 1.187ZE+00 1.3633E+00 1.4727E+00 Z 1.2317E+00 1.4635E+00 1.5606E+00 GAME 6.9154E-01 7.0605E-01 7.121ZE-01 U 1.4825E+01 3.011ZE+00 2.8359E+00 U 1.609IE+01 3.0795E+00 2.939ZE+00 SPECIES					-				•
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.1457E+02 2.9646E+03 4.2267E+03 P 4.8315E+02 3.792ZE+03 5.3229E+03 T 3.9974E+01 4.9728E+01 5.2819E+01 T 4.1368E+01 5.221E±01 5.5593E+01 RHO 8.7360E+00 4.3066E+01 5.4336E+01 RHO 9.4826E+00 4.962IE+01 6.1354E+01 H 9.3170E+01 1.634IE+02 1.9446E+02 H 1.0755E+02 1.9070E+02 2.2539E+02 A 5.728ZE+00 6.9542E+00 7.4158E+00 A 5.9359E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3457E+00 7.3601E+00 S 1.270IE+00 1.3250E+00 1.3645E+00 S 1.274E+00 1.3637E+00 1.4067E+00 Z 1.187ZE+00 1.3633E+00 1.4727E+00 Z 1.2317E+00 1.4635E+00 1.5606E+00 GAME 6.9154E-01 7.0605E-01 7.121ZE-01 U 1.4825E+01 3.011ZE+00 2.8359E+00 U 1.609IE+01 3.0795E+00 2.939ZE+00 SPECIES	D1 - 1		. 1151= 5 40540	3 M/SEC		P1 =	1.00F+02 N/SQ-M	. US1= 5.80F+0	3 M/SEC
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H	Ť	3.9974E+01	4.9728E+01	5.2819E+01	•	T	4.1368E+01	5.2221E+01	5.5593E+01
H 9.3170E+01 1.6341E+02 1.9446E+02 H 1.0755E+02 1.9070E+02 2.2539E+02 A 5.7282E+00 6.9542E+00 7.4158E+00 A 5.9359E+00 7.3457E+00 7.8601E+00 S 1.2701E+90 1.3250E+00 1.3645E+00 S 1.2974E+00 1.3637E+00 1.4067E+00 2 1.1872E+00 1.3843E+00 1.4727E+00 2 1.2317E+00 1.4635E+00 1.5606E+00 GAME 6.914E+01 7.0252E-01 7.0697E-01 GAME 6.9154E-01 7.0605E-01 7.1212E-01 1.4825E+01 3.0112E+00 2.8359E+00 U 1.6091E+01 3.0795E+00 2.9392E+00	RHD		4.3066E+01	5.4336E+01		RHO	9.4826E+00	4.9621E+01	6.1354E+01
A 5.7282E+00 6.9542E+00 7.4158E+00 A 5.9359E+00 7.3457E+00 7.8601E+00 S 1.2701E+00 1.3250E+00 1.3645E+00 S 1.2974E+00 1.3637E+00 1.4067E+00 2 1.1872E+00 1.3843E+00 1.477E+00 2 1.2974E+00 1.4635E+00 1.5606E+00 1.5606E+01 1.6091E+01 3.0795E+01 7.0605E-01 7.1212E-01 1.4825E+01 3.0112E+00 2.8359E+00 U 1.6091E+01 3.0795E+00 2.9392E+00	н .		1.6341E+02	1.9446E+02		н	1.0755E+02	1.90706+02	2.2539E+02
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SPECIES						GAME			
SPECIES	11								
E- 1.5766E-01 2.7761E-01 3.2100E-01 E- 1.8808E-01 3.1670E-01 3.5922E-01 A 6.8469E-01 4.4478E-01 3.5802E-01 A 6.2383E-01 3.6662E-01 2.8160E-01 A+ 1.5766E-01 2.7760E-01 3.2097E-01 A+ 1.8808E-01 3.1667E-01 3.5915E-01 A+ 9.8035E-08 4.7068E-06 1.3680E-05 A+ 2.2742E-07 1.1728E-05 3.4272E-05 A++++ 5.2773E-20 8.7903E-16 1.1848E-14 A+++ 3.7069E-19 7.8967E-15 1.0903E-13 A++++ 1.0616E-39 1.9997E-31 2.8080E-29 A++++ 4.3152E-38 1.2634E-29 1.8259E-27 AV 2.6536E-66 1.2108E-52 3.4937E-49 AV 1.2617E-63 9.5532E-50 2.8536E-46 AVII 0. 0. 0. 0. AVII 0. 0. 0. 0.	J	1140275401		2.0337.00		Ū	2000722402		,
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AVI 0. 7.6974E-80 9.0670E-75 AVI 0. 1.3883E-75 1.7407E-70 AVII 0. 0. 0. 0.	MTTTT	9.8035E-08 5.2773E-20	8.7903E-16	1.1848E-14		A+++	3.7069E-19	7.8967E-15	1.0903E-13
AVII 0. 0. 0. AVII 0. 0. 0.		9.8035E-08 5.2773E-20 1.0616E-39	8.7903E-16 1.9997E-31	1.1848E-14 2.8080E-29		A+++ A++++	3.7069E-19 4.3152E-38	7.8967E-15 1.2634E-29	1.0903E-13 1.8259E-27
	AV	9.8035E-08 5.2773E-20 1.0616E-39 2.6536E-66	8.7903E-16 1.9997E-31 1.2108E-52	1.1848E-14 2.8080E-29 3.4937E-49		A+++ A++++ AV	3.7069E-19 4.3152E-38 1.2617E-63	7.8967E-15 1.2634E-29 9.5532E-50	1.0903E-13 1.8259E-27 2.8536E-46
	VA I VA	9.8035E-08 5.2773E-20 1.0616E-39 2.6536E-66 0.	8.7903E-16 1.9997E-31 1.2108E-52 7.6974E-80	1.1848E-14 2.6080E-29 3.4937E-49 9.0670E-75		A+++ A++++ AV AVI	3.7069E-19 4.3152E-38 1.2617E-63 0.	7.8967E-15 1.2634E-29 9.5532E-50 1.3883E-75	1.0903E-13 1.8259E-27 2.8536E-46 1.7407E-70
	AVI AVII	9.8035E-08 5.2773E-20 1.0616E-39 2.6536E-66 0.	8.7903E-16 1.9997E-31 1.2108E-52 7.6974E-80 0.	1.1848E-14 2.8080E-29 3.4937E-49 9.0670E-75		A+++ AV AVI AVII	3.7069E-19 4.3152E-38 1.2617E-63 0.	7.8967E-15 1.2634E-29 9.5532E-50 1.3883E-75 0.	1.0903E-13 1.8259E-27 2.8536E-46 1.7407E-70 0.

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MOUTES CORE		DEFI PETER SHOEK	MOVING SHOCK STANDING SHOCK REF	LECTED SHOCK
		REFLECTED SHOCK		
P 5-1895E+02	4.2403E+03			7.2181E+03
T 4.2042E+01	5.3484E+01	5.7059E+01	T 4.3364E+01 5.6132E+01	6.0319E+01
RHO: 53.5 9.8347E+00 -	5.2702E+01	6.4579E+01	RHO 1.0505E+01 5.8483E+01	7.0419E+01
H 1.1511E+02	2.0493E+02	2.4160E+0Z	H 1.3098E+02 2.3481E+02	2.7590E+02 '
A 6.0420E+00	7.5485E+00	8.0966E+00	A 6.2597E+00 7.9780E+00	8.6186E+00
S 1.3117E+00	1.3836E+00	1.4283E+00	S 1.3413E+00 1.4244E+00	1.4727E+00
Z 1.2551E+00	1.5043E+00	1.60596+00	Z 1.3044E+00 1.5890E+00	1.6994E+00
GAME: 6.9182E-01	7.0820E-01	7-1544E-01	GAME 6.9272E-01 7.1361E-01	7-2466E-01
		3.00016+00	U 1.7942E+01 3.2277E+00	3.1451E+00 .
U 1.6710E+01	3-1228E+00	3.00015.00	0 1117425401 3122115400	3.14315400
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SPECIES	401 F FRAST 1015		SPECIES MOLE FRACTIONS	
2hEC152	- MOLE FRACTIONS		SPECIES STEEDED HOLE PRACTICAS	
E- 2-0325F-01	3.3526E-01	3.7728E-01	E- 2.3337E-01 3.7067E-01	4.1154E-01
A 5.9349E-01	3.2950E-01	2.4549E-01	A 5.3326E-01 2.5869E-01	1.7706E-01
A+ 2.0325E-01	3.3522E-01		A+ 2.3337E-01 3.7059E-01	4.1126E-01
A++ . 3.3476E-07	1.8147E-05	5.4241E-05	A++ 6.8982E-07 4.3184E-05	1.4226E-04
A+++ 9.0666E-19,	2.2574E-14	. 3.3150E-13	A+++ 4.8258E-18 1.8386E-13	3.4405E-12
A++++ 2-3033E-37	9.0307E-29	1.4663E-26	A++++ 4.9756E-36 4.6600E-27	1.1498E-24
AV 1.8603E-62	2.1748E-48	8.0077E-45	AV 1.9709E-60 1.2349E-45	8-3809E-42
AVI		2.2981 E-68	AVI 0. 1.4493E-69	5.8497E-64
AVIII 3.	0.	0.	AVII 0.	0.
AVIII			AVIII O. O.	0.
WALET : 13: 0.	, 0.	0.	AV111 0. U.	
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		and the second s		
P1 = 1.00E+02 N/SQ-M	. US1= 6.20E+0	3 M/SEC	P1 = 1.00E+02 N/SQ-M, US1= 6.60E+03 M/	SEC
P1 = 1.00E+02 N/SQ-M	, US1= 6.20E+0	3 M/SEC	P1 = 1.00E+02 N/SQ-M, US1= 6.60E+03 M/	SEC
	٠		and the second of the second of the second	A
MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REF	LECTED SHOCK
MOVING SHOCK Page 5 5.5597E+02	STANDING SHOCK 4.7152E+03		MOVING SHOCK STANDING SHOCK REF P 6-3409E+02 5-7535E+03	LECTED SHOCK 7.9395E+03
MOVING SHOCK	STANDING SHOCK 4.7152E+03	REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01	LECTED SHOCK
MOVING SHOCK Page 5 5.5597E+02	STANDING SHOCK 4.7152E+03	REFLECTED SHOCK 6.5490E+03	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01	LECTED SHOCK 7.9395E+03
MOVING SHOCK Page 5.5597E+02 7 4.2707E+01	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01	REFLECTED SHOCK 6.5490E+03 5.862ZE+01 6.7617E+01	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01	LECTED SHOCK 7.9395E+03
MOVING SHOCK P. 5.5597E+02 T	STANDING SHOCK 4.7152E+03 5.4783E+01 .5.5665E+01 -2.1963E+02	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01 RHO 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02	LECTED SHOCK 7.9395E+03 6.2228E+01 17.3005E+01 2.9426E+02
MOVING SHOCK Part 5.5597E+02 T 4.2707E+01 RHO 1.0176E+01 H 1.2292E+02 A 6.1498E+00	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.3479E+00	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01 RHD 1.0828E+01 6.1203E+01 H 1.393ZE+02 2.5063E+02 A 6.3718E+00 8.2109E+00	LECTED SHOCK 7.9395E+03 6.2228E+01 17.3005E+01 2.9426E+02 8.9189E+00
MOVING SHOCK P. 5.5597E+02 T 4.2707E+01 RHD 1.0176E+01 H 1.2292E+02 A 6.1498E+00 S 1.3263E+00	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 -2.1963E+02 7.7588E+00 1.4038E+00	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01 RHD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00	LECTED SHOCK 7.9395E+03 6.2228E+01 17.3005E+01 2.9426E+00 1.4956E+00
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 H. 1.2292E+02 A. 6.1498E+00 S. 1.3263E+00 Z. 1.2794E+00	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.3477E+00 1.4503E+00 1.6522E+00	MDVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01 RHO 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+00 1.6330E+00	1. ECTED SHOCK 7. 9395E+03 6. 2228E+01 17. 3005E+01 2. 9426E+02 8. 9189E+00 1.4956E+00 1.7476E+00
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHO 1.0176E+01 H 1.2292E+02 A 6.198E+00 S 1.3263E+00 Z 1.3293E+00 GAME 6.9221E-01	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 -2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01	REFLECTED SHOCK 6.5490E+03 5.8622F+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00 1.6522E+00 7.1951E-01	MDVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7557E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+03 1.6330E+00 GAME 6.9333E-01 7.1717E-01	LECTED SHOCK 7.9395E+03 6.2228E+01 17.3005E+01 2.9426E+02 8.9189E+00 1.4956E+00 1.7476E+00 7.3144E-01
MOVING SHOCK P. 5.5597E+02 T	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.3477E+00 1.4503E+00 1.6522E+00	MDVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01 RHO 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+00 1.6330E+00	1. ECTED SHOCK 7. 9395E+03 6. 2228E+01 17. 3005E+01 2. 9426E+02 8. 9189E+00 1.4956E+00 1.7476E+00
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHO 1.0176E+01 H 1.2292E+02 A 6.198E+00 S 1.3263E+00 Z 1.3293E+00 GAME 6.9221E-01	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 -2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01	REFLECTED SHOCK 6.5490E+03 5.8622F+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00 1.6522E+00 7.1951E-01	MDVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7557E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+03 1.6330E+00 GAME 6.9333E-01 7.1717E-01	LECTED SHOCK 7.9395E+03 6.2228E+01 17.3005E+01 2.9426E+02 8.9189E+00 1.4956E+00 1.7476E+00 7.3144E-01
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHD 1.0176E+01 H 1.2292E+02 A 6.1498E+00 S 1.3263E+00 Z 1.2794E+00 GAME 6.9221E-01 U 1.7327E+01	STANDING SHOCK 4.715 2E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 7.1068E-01 3.1722E+00	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.347%E+00 1.4503E+00 1.6522E+00 7.1951E-01 3.0682E+00	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+00 1.6330E+00 GAME 6.933E-01 7.1717E-01 U 1.8568E+01 3.2900E+00	LECTED SHOCK 7.9395E+03 46.2228E+01 17.3005E+01 2.9426E+02 8.9109E+00 1.4956E+00 7.3144E-01 3.2334E+00
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHD 1.0176E+01 H 1.2292E+02 A 6.1498E+00 S 1.3263E+00 Z 1.2794E+00 GAME 6.9221E-01 U 1.7327E+01	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 -2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.347%E+00 1.4503E+00 1.6522E+00 7.1951E-01 3.0682E+00	MDVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7557E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+03 1.6330E+00 GAME 6.9333E-01 7.1717E-01	LECTED SHOCK 7.9395E+03 46.2228E+01 17.3005E+01 2.9426E+02 8.9109E+00 1.4956E+00 7.3144E-01 3.2334E+00
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHD 1.0176E+01 H 1.2292E+02 A 6.1498E+00 S 1.3263E+00 Z 1.3263E+00 U 1.7327E+01 SPECIES	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01 3.1722E+00	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00 7.1951E-01 3.0682E+00	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7535E+01 RHD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+03 1.6330E+00 GAME 6.9333E-01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	LECTED SHOCK 7.9395E+03 46.2226E+01 17.3005E+01 2.9426E+02 8.9189E+00 1.4956E+00 7.314E-01 3.2334E+00
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHD 1.0176E+01 H 1.2292E+02 A 6.1498E+00 S 1.3263E+00 Z 1.2794E+00 GAME 6.9221E-01 U 1.7327E+01 SPECIES E- 2.1836E-01	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01 3.1722E+00	REFLECTED SHOCK 6.5490E+03 5.862E+01 6.7617E+01 2.5843E+02 8.347%E+00 1.4503E+00 7.1951E-01 3.0682E+00	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+01 1.6330E+00 GAME 6.933E-01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	LECTED SHOCK 7.9395E+03 6.2228E+01 17.3005E+01 2.9426E+02 8.9109E+00 1.4956E+00 7.3144E-01 3.2334E+00
MOVING SHOCK P. 5.5597E+02 T	STANDING SHOCK 4-7152E+03 5-4783E+01 5-5665E+01 2-1963E+02 7-7588E+00 1-4038E+00 1-5462E+00 7-1068E-01 3-1722E+00 -MOLE FRACTIONS 3-5326E-01 2-9350E-01	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00 7.1951E-01 3.0682E+00	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7535E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+00 1.6330E+00 GAME 6.9333E-01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	1 ECTED SHOCK 7.9395E+03 6.2228E+01 7.3005E+01 2.9426E+02 8.9189E+00 1.4956E+00 7.3144E-01 3.2334E+00
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHO 1.0176E+01 H 1.2292E+02 A 6.1498E+00 S 1.3263E+00 Z 1.2794E+00 GAME 6.9221E-01 U 1.7327E+01 SPECIES E- 2.1836E-01	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01 3.1722E+00	REFLECTED SHOCK 6.5490E+03 5.862E+01 6.7617E+01 2.5843E+02 8.347%E+00 1.4503E+00 7.1951E-01 3.0682E+00	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+01 1.6330E+00 GAME 6.933E-01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	LECTED SHOCK 7.9395E+03 6.2228E+01 17.3005E+01 2.9426E+02 8.9109E+00 1.4956E+00 7.3144E-01 3.2334E+00
MOVING SHOCK P. 5.5597E+02 T	STANDING SHOCK 4-7152E+03 5-4783E+01 5-5665E+01 2-1963E+02 7-7588E+00 1-4038E+00 1-5462E+00 7-1068E-01 3-1722E+00 -MOLE FRACTIONS 3-5326E-01 2-9350E-01	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00 7.1951E-01 3.0682E+00 3.9474E-01 2.1062E-01 3.9456E-01	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7535E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+00 1.6330E+00 GAME 6.9333E-01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	1 ECTED SHOCK 7.9395E+03 6.2228E+01 17.3005E+01 2.9426E+02 8.9189E+00 1.4956E+00 1.7476E+00 7.3144E-01 3.2334E+00
MOVING SHOCK P. 5.5597E+02 Y	STANDING SHOCK 4.715 2E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 7.1068E-01 3.1722E+00 MULE FRACTIONS 3.5326E-01 2.9350E-01 3.5321E-01 2.7977E-05	REFLECTED SHOCK 6.5490E+03 5.862E+01 6.7617E+01 2.5843E+02 8.347%E+00 1.652ZE+00 7.1951E-01 3.068ZE+00 3.9474E-01 2.106ZE-01 3.9456E-01 8.6899E-05	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+01 1.6330E+00 GAME 6.933E-01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	1. ECTED SHOCK 7. 9395E+03 46. 2228E+01 17. 3005E+01 2. 9426E+02 8. 9189E+00 1. 7476E+00 7. 3146E-01 3. 2334E+00 4.2780E-01 1. 4464E-01 4.2732E-01 2.4234E-04
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHO 1.0176E+01 H 1.2292E+02 A 6.1498E+00 S 1.3263E+00 I 1.2794E+00 GAME 6.9221E-01 U 1.7327E+01 SPEC IES E- 2.1836E-01 A 5.6328E-01 A+ 4.8414E-07 A++ 4.8414E-07 A++ 2.1272E-18	STANDING SHOCK 4.715 2E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01 3.1722E+00 MULE FRACTIONS 3.5326E-01 2.9350E-01 2.7977E-05 6.4171E-15	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00 7.1951E-01 3.0682E+00 3.9474E-01 2.1062E-01 3.9456E-01 8.6899E-05 1.0388E-12	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7535E+03 RHD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+03 1.6330E+00 GAME 6.9333E-01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	LECTED SHOCK 7.9395E+03 6.2226E+01 17.3005E+01 2.9426E+02 8.9189E+00 1.4476E+00 7.314E-01 3.2334E+00 4.2780E-01 1.4464E-01 4.2732E-01 2.4234E-04 1.2559E-11
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHO 1.0176E+01 H 1.0292E+02 A 6.1498E+00 S 1.3263E+00 Z 1.2794E+00 GAME 6.9221E-01 U 1.7327E+01 SPECIES E- 2.1836E-01 A 5.6328E-01 A+ 4.8414E-07 A++ 4.8414E-07 A+++ 1.1141E-36	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01 3.1722E+00 - MULE FRACTIONS 3.5326E-01 2.9350E-01 3.5321E-01 2.7977E-05 6.4171E-14 6.3951E-28	REFLECTED SHOCK 6.5490E+03 5.862E+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00 1.4503E+00 3.9682E+00 3.9474E-01 2.1062E-01 3.9456E-01 8.6899E-05 1.0388E-12 1.2327E-25	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7535E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	1. ECTED SHOCK 7. 9395E+03 46. 2228E+01 17. 3005E+01 2. 9426E+02 8. 9189E+00 1. 4956E+00 1. 7476E+00 7. 3144E-01 3. 2334E+00 4. 2780E-01 1. 4646E-01 4. 2732E-01 2. 4234E-04 1. 2559E-11 1. 2690E-23
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHD 1.0176E+01 H 1.2292E+02 A 6.1498E+00 S 1.3263E+00 U 1.7327E+01 U 1.7327E+01 SPECIES E- 2.1836E-01 A+ 2.1836E-01 A+ 4.6414E-07 A++ 4.6414E-07 A++ 1.1141E-36 AV 2.1820E-61	STANDING SHOCK 4.715 2E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01 3.1722E+00 MULE FRACTIONS 3.5326E-01 2.9350E-01 3.5321E-01 2.7977E-05 6.4171E-14 6.3951E-28 4.8866E-47	REFLECTED SHOCK 6.5490E+03 5.862E+01 6.7617E+01 2.5843E+02 8.347%E+00 1.652ZE+00 7.1951E-01 3.068ZE+00 3.9474E-01 2.106ZE-01 3.9456E-01 8.6899E-05 1.0388E-12 1.23ZTE-25 2.3635E-43	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7567E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.455E+00 Z 1.3303E+01 7.1717E-01 U 1.4568E+01 3.2900E+00 SPECIES	1.ECTED SHOCK 7.9395E+03 6.2228E+01 17.3005E+01 2.9426E+02 8.9189E+00 1.7476E+00 7.3144E-01 3.2334E+00 4.2780E-01 1.4464E-01 4.2732E-01 2.4234E-04 1.2559E-11 1.2690E-23 3.7851E-40
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHD 1.0176E+01 H 1.2292E+02 A 6.1498E+00 S 1.3263E+00 Z 1.3263E+01 U 1.7327E+01 SPECIES E- 2.1836E-01 A+ 2.1836E-01 A+ 4.8414E-07 A++ 4.8414E-07 A++ 4.8414E-07 A++ 2.1272E-18 A+++ 1.1141E-36 AV 2.1820E-61 AVI 0.	STANDING SHOCK 4.7152E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.4038E+01 3.1722E+00 MULE FRACTIONS 3.5326E-01 2.9350E-01 2.9350E-01 2.7977E-05 6.4171E-14 6.3951E-28 4.8866E-47 1.0566E-71	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00 7.1951E-01 3.0682E+00 3.9474E-01 2.1062E-01 3.9456E-01 8.6899E-05 1.0388E-12 1.2327E-25 2.363E-43 3.1072E-66	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7535E+01 RHD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+01 1.6330E+00 GAME 6.9333E-01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	LECTED SHOCK 7.9395E+03 6.2226E+01 17.3005E+01 2.9426E+02 8.9189E+00 1.7476E+00 7.314E-01 3.2334E+00 4.2780E-01 1.4464E-01 4.2732E-01 2.4234E-04 1.2595E-11 1.2690E-23 3.7951E-61
MOVING SHOCK P. 5.5597E+02 T. 4.2707E+01 RHO 1.0176E+01 H 1.2292E+02 A 6.1498E+00 S 1.3263E+00 Z 1.2794E+00 GAME 6.9221E-01 U 1.7327E+01 SPECIES E- 2.1836E-01 A 5.6328E-01 A+ 4.8414E-07 A++ 4.8414E-07 A++ 1.1141E-36 AV. 2.1820E-61 AVI 0. AVI 0.	STANDING SHOCK 4.715 2E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01 3.1722E+00 MOLE FRACTIONS 3.5321E-01 2.9350E-01 2.7977E-05 6.4171E-14 6.3951E-28 4.8866E-47 1.0566E-71 0.	REFLECTED SHOCK 6.5490E+03 5.862E+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00 1.6522E+00 7.1951E-01 3.0682E+00 3.9474E-01 2.1062E-01 3.9456E-01 8.6899E-05 1.0388E-12 1.2327E-25 2.3635E-43 3.1072E-66	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7535E+01 RMD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	1.ECTED SHOCK 7.9395E+03 6.2228E+01 17.3005E+01 2.9426E+02 8.9189E+00 1.7476E+00 7.3144E-01 3.2334E+00 4.2780E-01 1.4464E-01 4.2732E-01 2.4234E-04 1.2559E-11 1.2690E-23 3.7851E-40
MOVING SHOCK P	STANDING SHOCK 4.715 2E+03 5.4783E+01 5.5665E+01 2.1963E+02 7.7588E+00 1.4038E+00 1.5462E+00 7.1068E-01 3.1722E+00 MOLE FRACTIONS 3.5321E-01 2.9350E-01 2.7977E-05 6.4171E-14 6.3951E-28 4.8866E-47 1.0566E-71 0.	REFLECTED SHOCK 6.5490E+03 5.8622E+01 6.7617E+01 2.5843E+02 8.3479E+00 1.4503E+00 7.1951E-01 3.0682E+00 3.9474E-01 2.1062E-01 3.9456E-01 8.6899E-05 1.0388E-12 1.2327E-25 2.363E-43 3.1072E-66	MOVING SHOCK STANDING SHOCK REF P 6.3409E+02 5.7535E+03 T 4.4019E+01 5.7535E+01 RHD 1.0828E+01 6.1203E+01 H 1.3932E+02 2.5063E+02 A 6.3718E+00 8.2109E+00 S 1.3566E+00 1.4455E+00 Z 1.3303E+01 1.6330E+00 GAME 6.9333E-01 7.1717E-01 U 1.8568E+01 3.2900E+00 SPECIES	LECTED SHOCK 7.9395E+03 46.2226E+01 17.3005E+01 2.9426E+02 8.9189E+00 1.7476E+00 7.3146E-01 3.2334E+00 4.2780E-01 1.4464E-01 4.2732E-01 2.4234E-04 1.2559E-11 1.2690E-23 3.7851E-61

P1 = 1.	00E+02 N/SQ-M	US1= 6.80E+03	3 M/SEC	•	P1 = 1.	00E+02 N/SQ-M	US1= 7.20E+0	3 M/SEC
		•	AND THE STREET					
							•	•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	6.7491E+02	6.3079E+03	8.6945E+03		P	7.6015E+02	7.4813E+03	1.0324E+04
T	4.4670E+01	5.9081E+01	6.4408E+01		T	4.5974E+01 `	6.2531E+01	7.0154E+01
RHO ·	1.1135E+01	6.3653E+01	7.5161E+01		RHO .	1.1707E+01	6.7724E+01	7.7907E+01
н	1.4790E+02	2.6680E+02	3.1332E+02		н '	1.6581E+02	3.0050E+02	3.5375E+02
A	6.4860E+00	8.4556E+00	9.2554E+00		A	6.7213E+00	9.0038E+00	1.0088E+01
•	1.3722E+00	1.4667E+00	1.5187E+00		S	1.4045E+00	1.5095E+00	1.5653E+00
7	1.3569E+00	1.6773E+00	1.7960E+00		,	1.4124E+00	1.7666E+00	1.8890E+00
GAME	6.9404E-01	7.2149E-01	7.4053E-01		GAME	6.9575E-01	7.3387E-01	7.6790E-01
GARE .	1.9183E+01	3.3608E+00	3.3431E+00	,	U	2.0409E+01	3.5312E+00	3.6080E+00
U	1.71036401	3.30002.00	3.343124,00		•	2.04072.01	2132155400	3.00000.00
	1 1	: 3						
SPECIES		- MOLE FRACTIONS			SPECIES		- MOLE FRACTIONS	
		i				. '	• •	
E-:	2.6303E-01	4.0380E-01	4.4322E-01		ε-	2.9197E-01	4.3394E-01	4.7062E-01
A	4.7394E-01	1.9250E-01	1.1400E-01		A ' '	4.1606E-01	1.3240E-01	6.0544E-02
A+	2.6303E-01	4.0359E-01	4.4235E-01		A+	2.9197E-01	4.3337E-01	4.6705E-01
A++	1.3537E-06	1.0618E-04	4.3417E-04		A++	2.5630E-06	2.8315E-04	1.7842E-03
A+++	2.3424E-17	1.6279E-12	5.1907E-11		A+++	1.0590E-16	1.7604E-11	1.6281E-09
A++++ '	9.7017E-35	2.7284E-25	1.7493E-22		A++++	1.7148E-33	2 - 2414E-23	9.8316E-20
AV		8.1466E-43	2.4210E-38		ÄV	2.8837E-56	8.7084E-40	
	2.2963E-58				IVA	1.9104E-85		5.2452E-34
AVI	4.0857E-89		6-2321E-59				4.4386E-61	
IIVA	0.	0.	5.1625E-87		AVII	0.	3.0288E-90	4.0074E-78
ILIVA	0.	0.	• 0•	•	IIIVA	0.	0.	0.
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4.			* •				•	
•								
								•
			·			i .		
	005.03 N450-M	US3 - 7 005 0	2 . 2,		D1 - 1	005.03 N/50-H	US1 - 7 A0540	3 M/CCC
P1 = 1.	.00E+02 N/SQ-N	. US1= 7.00E+0	3 M/SEC		P1 = 1.	00E+02 N/SQ-M	, US1= 7.40E+0	3 M/SEG
P1 = 1.	.00E+02 N/SQ-N	. US1= 7.00E+0	3 M/SEC		P1 = 1.	00E+02 N/SQ-M	, US1= 7.40E+0	3 M/SEC
<i>t.</i>								
<i>t.</i>	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 721693E+02	STANDING SHOCK	REFLECTED SHOCK)	р :	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P T	MOVING SHOCK 721693E+02 4.5321E+01	STANDING SHOCK 6.8842E+03 6.0720E+01	REFLECTED SHOCK 9.4816E+03 6.6955E+01		p : T	MOVING SHOCK** 8.0457E+02 ** 4.6631E+01	STANDING SHOCK 8.0933E+03 6.4580E+01	REFLECTED SHOCK 1.1207E+04 7.4065E+01
P T RHO	MOVING SHOCK 7:1693E+02 4.5321E+01 1.1428E+01	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01		P T RHO	MOVING SHOCK 8.0457E+02 4.6631E+01 1.1972E+01	STANDING SHOCK 8.0933E+03 6.4580E+01 6.9213E+01	REFLECTED SHDCK 1.1207E+04 7.4065E+01 7.8383E+01
P T RHO H	MOVING SHOCK 7:1693E+02 4.5321E+01 1.1428E+01 1.5673E+02	STANDING SHDCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02		p : T	MOVING SHOCK** 8.0457E+02 ** 4.6631E+01 1.1972E+01 1.7515E+02	STANDING SHOCK 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02	REFLECTED SHOCK 1.1207E+04 7.4065E+01 57.8383E+01 3.7544E+02
P T RHO H	MOV.ING SHOCK 7-1693E+02 4-5321E+01 1-1428E+01 1-5673E+02 6-6024E+00	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00		P T RHO	MOVING SHOCK** 8.0457E+02 * 4.6631E+01 * 1.1972E+01 * 1.7515E+02 * 6.8429E+00	STANDING SHOCK 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00	REFLECTED SHOCK 1.1207E+04 7.4065E+01 57.8383E+01 3.7544E+02 1.0551E+01
P T RHO H A S	MOVING SHOCK 7.1693E+02 4.5321E+01 1.1428E+01 1.5673E+02 6.6024E+00 1.3882E+00	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02		P T RHO H A S	MOVING SHOCK 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00	STANDING SHOCK 8.0938+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00
P T RHO H A S	MOV.ING SHOCK 7-1693E+02 4-5321E+01 1-1428E+01 1-5673E+02 6-6024E+00	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00		P T RHO	MOVING SHOCK** 8.0457E+02 * 4.6631E+01 * 1.1972E+01 * 1.7515E+02 * 6.8429E+00	STANDING SHOCK 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00	REFLECTED SHOCK 1.1207E+04 7.4065E+01 57.8383E+01 3.7544E+02 1.0551E+01
P T RHO H A S	MOVING SHOCK 7.1693E+02 4.5321E+01 1.1428E+01 1.5673E+02 6.6024E+00 1.3882E+00	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00		P T RHO H A S	MOVING SHOCK 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00	STANDING SHOCK 8.0938+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00
P T RHO H A S	MOVING SHOCK 7.1693E+02 4.5321E+01 1.1428E+01 1.5673E+02 6.6024E+00 1.3882E+00	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00 1.7219E+00	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00		P T RHO H A S	MOVING SHOCK 8.0457E+02 4.6631E+01 1.197ZE+01 1.7515E+02 6.8429E+00 1.4211E+00	\$TANDING SHOCK 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00 1.8107E+00	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00
P T RHO H A S Z Game	MOV.ING SHDCK 7:1693E+02 4-532IE+01 1-1428E+01 1-5673E+02 6-6024E+00 1-3882E+00 1-3843E+00 6-9484E-01	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8345E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01		P T RHO H A S C GAME	MOVING SHOCK 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4411E+00 1.4412E+00 6.9676E-01	\$TANDING SHOCK 8.0933E+03 6.4980E+01 3.1801E+02 9.3209E+00 1.5309E+00 1.8107E+00 7.4298E-01	REFLECTED SHOCK 1.1207F+04 7.4065F+01 57.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01
P T RHO H A S Z GAME U	MOV.ING SHOCK 7:1693E+02 4.532IE+01 1.1428E+01 1.5673E+02 6.6024E+00 1.3882E+00 1.3843E+00 6.9448E-01 1.9797E+01	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01 3.4411E+00	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00		P T RHO H A S Z GAME	MOVING SHOCK** 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 1.4412E+00 6.9678E-01 2.1020E+01	\$TANDING SHOCK 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00 1.8107E+00 7.4298E-01 3.6409E+00	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.40883E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00
P T RHO H A S Z Game	MOV.ING SHOCK 7:1693E+02 4.532IE+01 1.1428E+01 1.5673E+02 6.6024E+00 1.3882E+00 1.3843E+00 6.9448E-01 1.9797E+01	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8345E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00		P T RHO H A S C GAME	MOVING SHOCK** 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 1.4412E+00 6.9678E-01 2.1020E+01	\$TANDING SHOCK 8.0933E+03 6.4980E+01 3.1801E+02 9.3209E+00 1.5309E+00 1.8107E+00 7.4298E-01	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00
P T RHO H A S Z GAME U	MOV.ING SHOCK 7:1693E+02 4-532IE+01 1-1428E+01 1-5673E+02 6-6024E+00 1-3882E+00 1-3843E+00 6-9484E-01 1-9797E+01	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01 3.4411E+00	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00		P T RHO H A S G G G W E U	MOVING SHOCK** 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 6.9676E-01 2.1020E+01	\$TANDING SHOCK 8.0933E+03 6.4980E+01 3.1801E+02 9.3209E+00 1.5309E+00 1.8107E+00 7.4298E-01 3.6409E+00	REFLECTED SHOCK 1.1207E+04 7.4065E+01 57.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00
P T RHO H A S Z GAME U	MOV.ING SHOCK 7:1693E+02 4:532IE+01 1.1428E+01 1.5673E+02 6:6024E+00 1.3882E+00 1.3843E+00 6:948E-01 1.9797E+01	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01 3.4411E+00 MOLE FRACTIONS 4.1926E-01	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK** 8.0457E+02 4:6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 1.421E+00 6.9678E-01 2.1020E+01	\$TANDING SHOCK 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00 1.8107E+00 7.429E-01 3.6409E+00 MOLE FRACTIONS	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00
P T RHO H A S Z GAME U SPECIES	MOV.ING SHOCK 7:1693E+02 4:532IE+01 1.1428E+01 1.5673E+02 6:6024E+00 1.3843E+00 6:9484E-01 1.9797E+01	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00 7.2691E-01 3.4411E+00 - MOLE FRACTIONS 4.1926E-01 1.6165E-01	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00		P T RHO H A S Z GAME U SPECIES E-A	MOVING SHOCK 8.0457E+02 4:6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 1.4212E+00 6.9676E-01 2.1020E+01 3.0613E-01 3.8775E-01	\$TANDING SHOCK 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00 7.4298E-01 3.6409E+00 - MOLE FRACTIONS 4.4772E-01 1.0505E-01	REFLECTED SHOCK 1.1207E-04 7.4065E+01 7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00
P T RHO H A S Z GAME U SPECIES E T A A A A A	MOV.ING SHDCK 7:1693E+02 4-532IE+01 1.1428E+01 1.5673E+02 6-6024E+00 1.3843E+00 6.9484E-01 1.9797E+01	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8345E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01 3.4411E+00 - MOLE FRACTIONS 4.1926E-01 1.6165E-01 4.1892E-01	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00 4.5741E-01 8.6008E-02 4.5575E-01		P T RHO H A S Z GAME U SPECIES E-A A+	MOVING SHOCK** 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 6.9676E-01 2.1020E+01 3.0613E-01 3.8775E-01 3.0612E-01	\$TANDING SHOCK 8.0933E+03 6.4980E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00 1.8107E+00 7.4298E-01 3.6409E+00 - MOLE FRACTIONS 4.477ZE-01 1.0505E-01 4.4674E-01	REFLECTED SHOCK 1.1207F+04 7.4065F+01 '7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00
P T RHO H A S Z Z GAME U SPECIES E 7 A A A A + A + +	MOV.ING SHOCK 7:1693E+02 4:532IE+01 1.1428E+01 1.5673E+02 6:6024E+00 1.3882E+00 1.3884E+01 1.9797E+01 2.7760E-01 4.4480E-01 2.7760E-01 1.8699E-06	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01 3.4411E+00 4.1926E-01 1.6165E-01 4.1892E-01 1.7074E-01	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00 4.5741E-01 8.6008E-02 4.5575E-01 8.3001E-04		P T RHO H A S Z GAME U SPECIES E-A A+A++	MOVING SHOCK** 8.0457E+02 4:6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 1.4412E+00 6.9676E-01 2.1020E+01 3.0613E-01 3.0613E-01 3.0612E-01	\$TANDING SHOCK 4 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00 7.4298E-01 3.6409E+00 - MOLE FRACTIONS 4.4772E-01 1.0505E-01 4.4674E-01 4.9092E-04	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00 4.8199E-01 4.0236E-02 4.7357E-01 4.2112E-03
P T RHO H A S Z GAME U SPECIES E 7 A A A A A A A A A A A A A A A A A A	MOV.ING SHOCK 7:1693E-02 4.5321E-01 1.1428E+01 1.5673E-02 6.6024E+00 1.3882E-00 1.3843E-00 6.9484E-01 1.9797E+01 2.7760E-01 2.7760E-01 1.8699E-07	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8345E+02 8.7180E+00 1.7219E+00 7.2691E-01 3.4411E+00 - MOLE FRACTIONS 4.1926E-01 1.6165E-01 4.1892E-01 1.7074E-04 5.1588E-12	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00 4.5741E-01 8.6008E-02 4.5575E-01		P T RHO H A S Z GAME U SPECIES E-A A+A+++	MOVING SHOCK** 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 1.4412E+00 6.9676E-01 2.1020E+01 3.0613E-01 3.8775E-01 3.0612E-01 3.4925E-06	\$TANDING SHOCK 8.0933E+03 6.4980E+01 3.1801E+02 9.3209E+00 1.8107E+00 7.4298E-01 3.6409E+00 - MOLE FRACTIONS 4.4772E-01 4.9092E-04 6.7195E-11	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7548E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00 4.8199E-01 4.0236E-02 4.7357E-01 4.2112E-03 1.3354E-08
P T RHO H A S Z Z GAME U SPECIES E 7 A A A A + A + +	MOV.ING SHOCK 7:1693E+02 4:532IE+01 1.1428E+01 1.5673E+02 6:6024E+00 1.3882E+00 1.3884E+01 1.9797E+01 2.7760E-01 4.4480E-01 2.7760E-01 1.8699E-06	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01 3.4411E+00 4.1926E-01 1.6165E-01 4.1892E-01 1.7074E-01	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00 4.5741E-01 8.6008E-02 4.5575E-01 8.3001E-04		P T RHO H A S Z GAME U SPECIES E-A A+A++	MOVING SHOCK** 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 1.4412E+00 2.1020E+01 3.0613E-01 3.0613E-01 3.0612E-01 3.0612E-01 6.6080E-33	\$TANDING SHOCK 4 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00 7.4298E-01 3.6409E+00 - MOLE FRACTIONS 4.4772E-01 1.0505E-01 4.4674E-01 4.9092E-04	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00 4.8199E-01 4.0236E-02 4.7357E-01 4.2112E-03
P T RHO H A S Z GAME U SPECIES E 7 A A A A A A A A A A A A A A A A A A	MOV.ING SHOCK 7:1693E-02 4.5321E-01 1.1428E+01 1.5673E-02 6.6024E+00 1.3882E-00 1.3843E-00 6.9484E-01 1.9797E+01 2.7760E-01 2.7760E-01 1.8699E-07	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8345E+02 8.7180E+00 1.7219E+00 7.2691E-01 3.4411E+00 - MOLE FRACTIONS 4.1926E-01 1.6165E-01 4.1892E-01 1.7074E-04 5.1588E-12	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00 4.5741E-01 8.6008E-02 4.5575E-01 8.3001E-04 2.5156E-10		P T RHO H A S Z GAME U SPECIES E-A A+A+++	MOVING SHOCK 8.0457E+02 4:0631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.421E+00 1.421E+00 6.9676E-01 2.1020E+01 3.0613E-01 3.0612E-01 3.4925E-06 2.1926E-16 6.6080E-33 2.4162E-55	\$TANDING SHOCK 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00 7.429E-01 3.6409E+00 - MOLE FRACTIONS 4.4772E-01 1.0505E-01 4.9092E-04 6.7195E-11 2.6715E-22 4.4963E-38	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7548E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00 4.8199E-01 4.0236E-02 4.7357E-01 4.2112E-03 1.3354E-08
PTRHOHA ASZIGAMEU SPECIES ETAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MOV.ING SHOCK 7:1693E+02 4-532IE+01 1.1428E+01 1.5673E+02 6-6024E+00 1.3843E+00 6.9484E-01 1.9797E+01 2.7760E-01 4.4480E-01 2.7760E-01 1.8699E-06 5.0370E-17 4.2474E-34	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01 3.4411E+00 MOLE FRACTIONS 4.1926E-01 1.6165E-01 4.1892E-01 1.7074E-04 5.1588E-12 2.3277E-24	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00 4.5741E-01 8.6000E-02 4.5575E-01 8.3001E-04 2.5156E-10 3.1940E-21		P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++	MOVING SHOCK** 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 6.9676E-01 2.1020E+01 3.0613E-01 3.0613E-01 3.0612E-01 3.0612E-01 3.0612E-01 3.0612E-01 3.0612E-01 3.0612E-01 3.0612E-01	**STANDING SHOCK	REFLECTED SHOCK 1.1207E+04 7.4065E+01 '7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00
P T RHO H A S Z GAME U SPECIES E T A A A A A A A A A A A A A A A A A A	MOV.ING SHOCK 7:1693E+02 4:532IE+01 1.1428E+01 1.5673E+02 6:6024E+00 1.3882E+00 1.3884E+01 1.9797E+01 2.7760E-01 4.4480E-01 2.7760E-01 1.8699E-06 5.0370E-17 4.2474E-34 3.0364E-57	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01 3.4411E+00 4.1926E-01 1.6165E-01 4.1892E-01 1.7074E-04 5.1588E-12 2.3277E-24 2.4653E-41	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00 4.5741E-01 8.6008E-02 4.5575E-01 8.3001E-04 2.5156E-10 3.1940E-21 2.3668E-36 4.6736E-56		P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++A++++A++++A++++A++++A+++	MOVING SHOCK** 8.0457E+02 4.6631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.4211E+00 6.9676E-01 2.1020E+01 3.0613E-01 3.0613E-01 3.0612E-01 3.0612E-01 3.0612E-01 3.0612E-01 3.0612E-01 3.0612E-01 3.0612E-01	\$TANDING SHOCK 8.0933E+03 6.4580E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00 7.429E-01 3.6409E+00 - MOLE FRACTIONS 4.4772E-01 1.0505E-01 4.9092E-04 6.7195E-11 2.6715E-22 4.4963E-38	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00 4.8199E-01 4.0236E-02 4.7357E-01 4.2112E-03 1.3354E-08 4.6291E-18 2.2408E-31
P T RHO H A S Z Z GAME U SPECIES E 7 A A + A + + A + + A + + A + + A + + A + + A + + A + + A +	MOV.ING SHOCK 731693E-02 4.5321E+01 1.1428E+01 1.5673E+02 6.6024E+00 1.3883EE+00 1.3843E+00 6.9484E-01 1.9797E+01	STANDING SHOCK 6.8842E+03 6.0720E+01 6.5842E+01 2.8343E+02 8.7180E+00 1.4880E+00 1.7219E+00 7.2691E-01 3.4411E+00 - MOLE FRACTIONS 4.1926E-01 1.6165E-01 1.7074E-04 5.1588E-12 2.3277E-24 2.4653E-41 2.7180E-63	REFLECTED SHOCK 9.4816E+03 6.6955E+01 7.6837E+01 3.3287E+02 9.6370E+00 1.5417E+00 1.8430E+00 7.5262E-01 3.4471E+00 4.5741E-01 8.6008E-02 4.5575E-01 8.3001E-04 2.5156E-10 3.1940E-21 2.3668E-36		P T RHO H A S Z GAME U SPECIES E-A A+++++++A++++ AVI	MOVING SHOCK 8.0457E+02 4:0631E+01 1.1972E+01 1.7515E+02 6.8429E+00 1.421E+00 1.421E+00 6.9676E-01 2.1020E+01 3.0613E-01 3.0612E-01 3.4925E-06 2.1926E-16 6.6080E-33 2.4162E-55	\$TANDING SHOCK 8.0933E+03 6.4980E+01 6.9213E+01 3.1801E+02 9.3209E+00 1.5309E+00 1.8107E+00 7.4298E-01 3.6409E+00 - MOLE FRACTIONS 4.4772E-01 4.9092E-04 6.7195E-11 2.6715E-22 4.4963E-38 1.4615E-58	REFLECTED SHOCK 1.1207E+04 7.4065E+01 7.8383E+01 3.7544E+02 1.0551E+01 1.5887E+00 1.9305E+00 7.7859E-01 3.7832E+00 4.8199E-01 4.0236E-02 4.7357E-01 4.2112E-03 1.3354E-08 4.6291E-18 2.2408E-31 7.2351E-49

P1 =	1.00E+02 N/SQ-H	I, US1= 7.60E+0	3 M/SEC	P1 = 1	.00E+02 N/SU-H	, US1= 8.00E+0	3 N/SEC
	HOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	8.5017E+02	8.7187E+03	1.2130E+04		9.4491E+02	9.9890E+03	1.4017E+04
Ť	4.7296E+01	6.6964E+01	7.8386E+01	· ·	4.8661E+01	7.3160E+01	8.5596E+01
RHD				RHD	1.2677E+01	7.0757E+01	8.0584E+01
	1.2222E+01	7.0248E+01	7.8681E+01				
H	1.8475E+02	3.3593E+02	3.9798E+02	H	2.0469E+02	3.7297E+02	4.4326E+02
A	6.9674E+00	9.6790E+00	1.0898E+01	<u> </u>	7.2261E+00	1.0485E+01	1.13256+01
S	1.4379E+00	1.5523E+00	1.6116E+00	S .	1.4724E+00	1.5941E+00	1.6542E+00
2	1.4707E+00	1.8534E+00	1.9668E+00	Z	1.5317E+00	1.9296E+00	2.0321E+00
GAME	6.9789E-01	7.5482E-01	7.7032E-01	GAME	7.0057E-01	7.7874E-01	7.3733E-01
U	. 2.1628E+01	3.7681E+00	3.9746E+00	U	2.2839E+01	4.0970E+00	4.2494E+00
			· · ·				
SPECIE	\$	- MOLE FRACTIONS		SPECIES	~~~~~~~~~~~	- MOLE FRACTIONS	
E	3.2005E-01	4.6046E-01	4.9155E-01	£-	3.4714E-01	4.8177E-01	5.0789E-01
Ā.	3.5990E-01	7.9994E-02	2.6713E-02	Ā	3.0574E-01	4.0296E-02	1.5147E-02
A+ ·	3.2004E-01	4.5865E-01	4.71.93E-01	· A+	3.4712E-01	. 4.7411E-01	4-4603E-01
A++	4.7397E-06	9.0492E-04	9.8092E-03	A++	8.6842E-06	3.8297E-03	3.0928E-02
A+++	4.4988E-16	2.9771E-10	1.0823E-07	A+++	1.8891E-15	1.0088E-08	2.0293E-06
A++++	2.4760E-32	4.1225E-21	2.1380E-16	A++++	3.5200E-31	2.5930E-18	4.8357E-14
AV				AV	1.0675E-52	8.33796-32	4.8975E-25
	1.8233E-54	3.3680E-36	9.2843E-29				
AVI	5.5869E-83	7.5173E-56	.4.3151E-45	AVI:	9.4250E-81	1.56746-49	1.0560E-39
IIVA	0.	1.1701E-82	2.0943E-67	AVII	0.	8.7680E-74	9.3334E-60
IIIVA	0.	.0•	0.	IIIVA	0.	0.	3.0678E-84
	•	•		.*			
	•			* *			•
		•	•				
					•		
		•	· .		•		1 (41)
.P1 =	1.00E+02 N/SU-M	, US1= 7.80E+0	3 M/SEC	P1 = 1.	.00E+02 N/SU-M	. US1= 8.20E+0	3 M/SEC
•				•	,		
	- NOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
0	8.9695E+02	9.3517E+03	1.3071E+04	΄ ρ.	9.9403E+02	1.0635E+04	1.4995E+04
Ť.	4.7972E+01	6.9803E+01	8.2322E+01	Ť.	4.9369E+01	7.6838E+01	8.8454E+01
RHO	1.2458E+01	7.0752E+01	7.9396E+01	ŘHD	1.2881E+01	7.0568E+01	8.2054E+01
H	1.9459E+02	3.5426E+02	4.2069E+02	H	2.1505E+02	3.9210E+02	4.6666E+02
7				Ä			
2	7.0950E+00	1.0080E+01	1.11238+01	ŝ	7.3612E+00	1.0802E+01	1.1537E+01
S	1.4550E+00	1.5734E+00	1.6334E+00	3	1.4900E+00	1.6143E+00	1.6751E+00
Z	1.5009E+00	1.8935E+00	1.9998E+00		1.5632E+00	1.9613E+00	2.0660E+00
GAME	6.9915E-01	7.6870E-01	7.5158E-01	GAME	7.0217E-01	7.7423E-01	7.2842E-01
U	2.2234E+01	3.9199E+00	4.1362E+00	U·	2.3441E+01	4.2841E+00	4.3796E+00
SPECTE	<u> </u>	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	147
	•	- NOEL TRACTIONS		,			
E-	3.3373E-01		4.9995E-01		3.6027E-01	4.9013E-01	5-15%E-01
A	3.3256E-01		1.92526-02	, A	2.7947E-01	2.7853E-02	1.2538E-02
A+	3.3371E-01	4.6829E-01	4.6165E-01	A+	3.6025E-01	4.7390E-01	4.2704E-01
A++	6.4174E-06	1.7999E-03	1.9147E-02	A++	1.1766E-05	8.1152E-03	4.4452E-02
A+++	9.2056E-16	1.59008-09	5.8487E-07	A+++	3.9043E-15	6.4305E-08	5-3721 E-06
A++++	9.2428E-32	8.83208-20	4.7823E-15	A++++	1.38316-30	7.70816-17	3.0200E-13
AV	1.32766-53	4.1031E-34	1.2491E-26	AV	1.02968-51	1.7446E-29	9.1192E-24
IVA	1.3600E-82			IVA	1.4198E-79	3.6323E-46	7.5107E-38
AVII		7.24218-53	5-1599E-42	ÎÎVĂ			
	0.	1.5138E-78	4.8364E-63		0.	5.9180E-69	4.1395E-57
AVIII.	0.	. 0.	1.1767E-88	AVIII	0.	0.	1-1748E-80

P1 =	1.00E+02 N/SQ-M,	US1= 8.40E+03	M/SEC	P1 = 1	1.00E+02 N/SO-M	US1= 8.80E+0	3 M/SEC .
			•		•		
•	MOULENC CHOCK	CTANDING CHOCK	DEEL ECTED CHOCK		Mariene Euroes		DEEL FORES 44444
		STANDING SHOCK 1.1303E+04	REFLECTED SHOCK 1.5966E+04	P	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ř .	1.0443E+03 5.0096E+01	8.0378E+01	9.0901E+01	Ť	1.1483E+03 5.1654E+01	1.2708E+04 8.6206E+01	1.7946E+04 9.5246E+01
RHO.	1.30706+01	7.0648E+01	8.3650E+01	RHD	1.3386E+01	7.1935E+01	8-6797E+01
KHU	2.2565E+02	4.1171E+02:	4.8966E+02	H	2.4763E+02	4.5253E+02	5.3730E+02
	7.4998E+00	1.1012E+01	1.1750E+01	Ä	7.7958E+00	1.13736+01	1.2190E+01
? ·	1.5077E+00	1.6340E+00	1.6951E+00	ŝ	1.5440E+00	1.6726E+00	1.7354E+00
ž	1.5950E+00	1.9904E+00	. 2.0997E+00	ž,	1.6607E+00	2.0493E+00	2.1708E+00
GAME	7.0397E-01	7.5795E-01	7.2335E-01	GAME	7.0849E-01	7.3212E-01	7.1875E-01
Ü	. 2.4041E+01	4.4536E+00	4.4513E+00	· V	2.5236E+01	4.7029E+00	4.6001E+00
		,					
SPECIE	s 	MOLE FRACTIONS		SPEC IE	s	- MOLE FRACTIONS	
· .	3.7302E-01	4.9759E-01	5.2375E-01	E-	3.9783E-01	5.1203E-01	5.39346-01
E-	2.5397E-01	2.0242E-02	1.0797E-02	Ä	2.0436E-01	1.29256-02	8.4137E-03
Ã+	3.7299E-01	4.6675E-01	4.0717E-01	Ã+ .	3.9777E-01	4.3805E-01	3.6520E-01
Ä++	1.5958E-05	1.5419E-02	5.8275E-02	A++	3.0030E-05	3.6985E-02	8.7014E-02
A+++	8.1130E-15	3.2040E-07	1.1428E-05	A+++	3.6882E-14	3.0902E-06	3.7394E-05
A++++	5.5401E-30	1.4709E-15	1.2710E-12	A++++	9.245 5E-29	9.9084E-14	1.2633E-11
AV	1.0838E-50	1.8102E-27	9.1483E-23	AV .	9.50988-49	1.4254E-24	3.7634E-21
IVA	2.3648E-77	2.9543E-43	2-1768E-36	AVI ·	1.5974E-74	4.6443E-39	5.1083E-34
IIVA	0.	7.7940E-65	5.0443E-55	IIVA	0.	7.0338E-59	1.2600E-51
TITA	0.	0.	7.4989E-78	AVILI	0.	4.4252E-83	2.8954E-73
	*. · · · · · · · · · · · · · · · · · · ·						
•							
	*		• -				
				A1 - 1			
P1 =	1.00E+02 N/SQ-M,	US1= 8.60E+03	WAZEC	P1 = 1	1.00E+02 N/SQ-M	, US1= 9.00E+0	3 M/SEC
			•			*	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK -	REFLECTED SHOCK
P	1.0957E+03	1.1994E+04.	1.6950E+04	Ρ		: 1.3437E+04	1.8943E+04
T '	5.0860E+01	8.3501E+01	9.3150E+01	Ţ	5.2500E+01	8.8594E+01	9.7236E+01
RHO	` 1.3235E+01	7.1132E+01	8.5236E+01	RHO	1.3513E+01	7.2908E+01	B.8248E+01
H 1	2.3651E+02	4.3188E+02	5.1328E+02	н	2.5899E+02	4.7371E+02	5.617.8E+02
Α.	7.6455E+00	1.1190E+01	1.1969E+01	A	7.9545E+00	1.1564E+01	1.2415E+01
S	1.5258E+00	1.6534E+00)	1.7152E+00	\$	1.5624E+00	1.6917E+00	1 • 7556E +00
2 :	1.627åE+00	2.0194E+00	2.1348E+00 ·	Z	1.6943E+00	2.0804E+00	2.2076E+00
GAME	7.0607E-01	7.4256E-01	7.2037E-01	GAME	7.1136E-01	7.2561E-01	71802E-01
U	2.4640E+01	4.5890E+00	4-5283E+00	U .	, 2.5830E+01	4.7964E+00	4.6687E+00
					_		
SPECIE	ES	MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	3.8566E-01	5.0481E-01	5.3158E-01	E-	4.0977E-01	5.1931E-01	
A	2.2870E-01	1.5741E-02		A A+	1-8050E-01	1.1005E-02	7.5258E-03
A+	3.8562E-01	4.5410E-01	3.8634E-01		4.0969E-01	4.2005E-01	3.4393E-01
A++	2.1842E-05	2.5350E-02	7.2586E-02	A++	4-1835E-05	4.9619E-02	1.0146E-01
A+++	1.7200E-14	1.1431E-06	2.1605E-05	A+++	8.1502E-14	6.8715E-06	6.0781E-05
A++++	2.2458E-29	1.5440E-14	4.3372E-12	A++++	3.9357E-28	4.4773E-13	3.2917E-11
AV	1.0084E-49	7.3923E-26	. 6.6445E-22	AV	8.4576E-48	1.58316-23	1.7969E-20
AVI	6-141 JE-76	6.2210E-41	3.99946-35	AVI	1.6908E-73	1.5413E-37	5-1420E-33
IIVA	0.	1.4500E-61	3.2909E-53	· IIVA		1.0223E-56	3.51656-50
AVIII,	0.	9.3664E-87	2.1518E-75	IIIVA	0.	3.5140E-80	2.6754E-71
	• •		•				

P1 = 1.	00E+02 N/SQ-M	, US1= 9.20E+0	3 M/SEC	P1 = 1	00E+02 N/SQ-M.	US1= 9.60E+0	3 M/SEC '
•							
, i	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK S	TANDING SHOCK	REFLECTED SHOCK
		1.4177E+04	1.9942E+04	P		1.5642E+04	2.1887E+04
T	1.2567E+03 5.3403E+01	9.07668+01	9.9156E+01	Ť.	5.5461E+01	9.4642E+01	1.02846+02
RHÓ		7.39296+01	8.9569E+01	RHD	1.3747E+01	7.5812E+01	9.1633E+01
	1.3618E+01		5.8677E+02	H	2.9459E+02	5.3995E+02	6.3786E+02
н	2.7061E+02	4.9536E+02		Ä	8.4940E+00	1.2170E+01	1.3105E+01
. <u>A</u> -	8.1217E+00	1.17636+01	1.2643E+01	ŝ	1.6181E+00	1.7498E+00	1.8172E+00
S.	1.5809E+30	1.7110E+00	1.7760E+00	3 1	1.7959E+00	2.1801E+00	2.3226E+00
2	1.7280E+00	2.11276+00	2.2454E+00	GAME	7.2435E-01	7.1786E-01	7.1905E-01
GAME	7.1480E-01	7.21598-01	7.1792E-01	BARE U	2.7589E+01	5.0105E+00	4.8683E+00
U	2.6420E+01	4.8744E+00	4.7400E+00	U	2.75896401	3.01032400	44 00035 100
SPECIES		- MOLE FRACTIONS		SPEC IES		MOLE FRACTIONS	
E-							
	4.2130E-01	. 5.2667E-01	5.5464E-01	E-	4.4319E-01	5.4130E-01	5.6945E-01
A	1.5745E-01	9.5820E-03	6.7540E-03	Ą	1.1376E-01	7.5555E-03	5.4480E-03
A+	4.2119E-01	4.0084E-01	3.2267E-01	A+	4.4293E-01	3.6103E-01	2.8095E-01
A++	5.9111E-05	6.2895E-02	1.1585F-01	A++	1.2644E-04	9.0077E-02	1.4395E-01
A+++ .	1.8712E-13	1.3401E-05	9.4327E-05	A+++	1.17908-12	3.9071E-05	2.0464E-04
A++++	1.8302E-27	1.6025E-12	7.9025E-11	A++++	5.65718-26	1.2757E-11	3.7799E-10
AV.	9.7081E-47	1.2281E-22	7.5562E-20	AV .	2.50256-44	3.5268E-21	9.9534E-19
AVI ,	7.2371E-72	3.0821E-36	4.3145E-32	IVA	4.291 7E-68	4.2638E-34	1.9674E-30
- IIVA	O	7.4004E-55	7.5797E-49	AVII) .	8.6686E-52	1.8474E-46
ITIVA	0.	1.1323E-77	1.7395E-69	IIIVA	0.	1.5812E-73	2.9079E-66
P1 = 1.	00E+02 N/SU-M	, US1= 9.40E+0	3 M/SEC	P1 = 1	1.00E+02 N/SQ-M,	US1= 9.80E+0	3 M/SEC
	MOVING SHOCK	STANDING SHUCK	REFLECTED SHOCK		MOVING SHOCK S	STANDING SHOCK	REFLECTED SHOCK
ρ	1.3125E+03	1.4914E+04	2.0924E+04	P	1.4270E+03	1.6346E+04	2.2812E+04
T	5.4382E+01	9.2766E+01	1.0101E+02	T	5-6675E+01	9.6422E+01	1.0463E+02
RHQ :	1.3698E+01	7.4920E+01	9.0709E+01	RHO	1.3762E+01	7.6536E+01	9. 2293E+01
н " .	2.8248E+02	5.1744E+02	6.1206E+02	• н	3.0696E+02	5.6283E+02	6.6407E+02
Α .	8.3004E+00	1.1965E+01	1.28726+01	A	8.7077E+00	1.2377E+01	1.3341E+01
S	1.5995E+00	1.7303E+00	1.79656+00	S	1.6368E+00	1.7694E+00	1.8381E+00
Z.	1.7620E+00 .	2.1459E+00	2.2836F+00	Z	1.8296E+00	2.2150E+00	2.3622E+00
GAME.	7.1903E-01	7.1919E-01	7-1830E-01	GAME	7.3123E-01	7.1724E-01	7.2012E-01
U	2.7007E+01	4.9456E+00	4.8021E+00	U	2.8166E+01	5.0727E+00	4.9349E+00
SPECIES		- MOLE FRACTIONS		SPECIES		MOLE FRACTIONS	
E-	4.3245E-01	5.3400E-01	5-6210E-01	E-	4.5344E-01	.5.4853E-01	5.7667E-01
Ă.;	1.3518E-01	8.4704E-03	6.0708E-03	Ā	9.3310E-02	6.7734E-03	4-8747E-03
A+	4.3228E-01	3.8108E-01	3.0171E-01	Ã+	4.5305E-01	:3.4091E-01	2-6055E-01
A++	8.5291E-05	7.6427E-02	1.2998E-01	A++	1.9432E-04	1.0372E-01	1.57628-01
A+++	4.5476E-13	2.3698E-05	1.408ZE-04	A+++	3.3233E-12	6.1079E-05	2-9072E-04
A++++	-9.6831E-27	4.8136E-12	1.7694E-10	A++++	3.7699E-25	3.0738E-11	7.7639E-10
AV	1.5114E-45	7.2535E-22	2.8439E-19	AV .	4.8331E-43	1.4782E-20	3.2828E-18
AVI .	7.1190E-70	4.1654E-35	3.0694E-31	IVA	2.8873E-66	3.5266E-33	1.1643E-29
AVII	0.	3.0762E-53	1.2755E-47	IIVA	0.	1.8086E-50	2.4341E-45
IIIVA	0.	1.7283E-75	7.9073E-68	IIIVA	0.	9.6947E-72	9.9218E-65

Pl =	1.00E+02 N/SU-M	US1= 1.00E+0	4 M/SEC		P1 = 1.0	00E+02 N/SQ-M	US1= 1.04E+0	4 M/SEC
	*		•					
-	MOVING SHOCK	STANDING SHOCK				MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.4856E+03	. 1.7012E+04	2.3678E+04		P	1.6046E+03	1.8119E+04	^2 • 5082E + 04
T	5.8073E+01	9.8124E+01	1.0642E+02		T	6.1785E+01	1.0132E+02	1.0995E+02
RHO	1.3733E+01	7.7031E+01	9.2618E+01		RHO	1.3492E+01	7.6963E+01	9-1821E+01
н	3.1957E+02	5.8605E+02	6.9068E+02		` н ,	3.4550E+02	6.3329E+02	7.4461E+02'
A	8.9491E+30	1.2585E+01	1.3581E+01		A	9.5617E+00	1-3002E+01	1.4072E+01
S ·	1.6554E+00	1.7893E+00	1.8594E+00		s	1.6926E+00	1.8300E+00	1.9032E+00
Z	1.8627E+00	2.2506E+00	2.4024E+00		Z	1.9250E+00	2.3236E+00	2.4845E+00
GAME	7.4036E-01	7.1716E-01 '	7.2147E-01		GAME	7.6870E-01	7.1809E-01	7.2490E-01
Ų.	2.8737E+01	5.1321E+00	5.0030E+00			2.9847E+01	5.2406E+00	5.1345E+00
SPEC IE	s ,	- MOLE FRACTIONS			SPECIES		- MOLE FRACTIONS	
F	4.6314E-01	5.5568E-01	5.8375E-01		E	4.8051E-01	5.6963E-01	5-9751E-01
Ā	7.4024E-02	6.0846E-03	4.3390E-03		Ä	4.0013E-02	4.8905E-03	3.3544E-03
Ā+	4.6252E-01	3.2088E-01	2.4049E-01		Ä+	4.7844E-01	2.8151E-01	2.0154E-01
A++	3.1385E-04	1.17266-01	1.7102E-01		A++	1.0364E-03	1.4378E-01	1.96848-01
4444	1.0591E-11	9.1620E-05						
A++++			4.0603E-04		A+++	1.9308E-10	1.8778E-04	7.6295E-04
	3.1346E-24	. 6.8740E-11	1.5484E-09		A++++ .	6.4853E-22	2.9008E-10	5.7729E-09
AV	1.2918E-41	5.5067E-20	1.0333E-17		AV	5.9987E-38	5.8421E-19	9-2247E-17
AVI	2.6406E-64	2.4548E-32	6.4236E-29		IVA	6.7643E-59	8.0640E-31	1-6695E-27
AVII	0.	2.9346E-49	2.8733E-44		IIVA	1.0483E-87	4.4608E-47	3-1415E-42
AVI (I,	0.	4.1848E-70	2.8456E-63		AVIII ,	0.	3.7862E-67	1.6484E-60
		•						
P1 =	1.00E+02 N/SQ-M	. US1= 1.02E+0	4 M/SEC		P1 = 1.	00E+02 N/SQ-M	. US1= 1.06E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ .΄	1.5448E+03	1.7617E+04	. 2.4457E+04		P	1.6649E+03	1.8580E+04	2.5679E+04
T	5.9728E+01	9.9757E+01	1.0818E+02		ī	6.4123E+01	1.0285E+02	1.1171E+02
RHO	1.3652E+01	7.7224E+01	9.2541E+01		RHD	1.3313E+01	7.6532E+01	9.1027E+01
H. 3	3.3241E+02	6.0956E+02	7.1760E+02	•	H	3.5882E+02	6.5721E+02	7.7259E+02
	9.2285E+00	1.2794E+01	1.3824E+01		Ä	9.8976E+00	1.32126+01	1.4320E+01
ŝ	1.6739E+00	1.8095E+00	1.8808E+00		Š		1.8507E+00	1.9250E+00
ž	1.8945E+00	2.2868E+00	2.4429E+00		ž	1.7095E+00		
GAME				•		1.9503E+00	2.3606E+00	2.5253E+00
GANC	7.5263E-01	7.1747E-01	7.2306E-01		GAME	7.8334E-01	7.1897E-01	7.2693E-01
U	2.9298E+01	5.1878E+30	5.0721E+00		U ,	3.0385E+01	5-2943E+00	5.2344E+00
SPECIE	ES	- MOLE FRACTIONS					5 55.45.4	
E-		- MOLE PRACTIONS			SPECIES		- NOLE FRACTIONS	
A	4.7217E-01	5.6272E-01	5.9065E-01		E-	4.8725E-01	- MULE PRACTIONS 5.7638E-01	6.0401E-01
						4.8725E-01 2.7567E-02		
A+ " '	4.7217E-01	5.6272E-01	5.9065E-01		E-		5.7638E-01	6.0401E-01
	4.7217E-01 5.6205E-02 4.7108E-01	5.6272E-01 5.4636E-03 3.0106E-01	5.9065E-01 3.8375E-03 2.2092E-01		E- A A+	2.7567E-02 4.8312E-01	5.7638E-01 4.3697E-03 2.6237E-01	6.0401E-01 2.9210E-03 1.8316E-01
A+	4.7217E-01 5.6205E-02 4.7108E-01 5.4209E-04	5.6272E-01 5.4636E-03 3.0106E-01 1.3063E-01	5.9065E-01 3.8375E-03 2.2092E-01 1.8403E-01		E- A A+ A++	2.7567E-02 4.8312E-01 2.0674E-03	5.7638E-01 4.3697E-03 2.6237E-01 1.5662E-01	6.0401E-01 2.9210E-03 1.8316E-01 2.0888E-01
A+++	4.7217E-01 5.6205E-02 4.7108E-01 5.4209E-04 3.9927E-11	5.6272E-01 5.4636E-03 3.0106E-01 1.3063E-01 1.3297E-04	5.9065E-01 3.8375E-03 2.2092E-01 1.8403E-01 5.5860E-04		E- A A+ A++	2.7567E-02 4.8312E-01 2.0674E-03 1.0389E-09	5.7638E-01 4.3697E-03 2.6237E-01 1.5662E-01 2.5954E-04	6.0401E-01 2.9210E-03 1.8316E-01 2.0888E-01 1.0272E-03
A+ A++ A+++	4.7217E-01 5.6205E-02 4.7108E-01 5.4209E-04 3.9927E-11 3.6008E-23	5.6272E-01 5.4636E-03 3.0106E-01 1.3063E-01 1.3297E-04 1.4483E-10	5.9065E-01 3.8375E-03 2.2092E-01 1.8403E-01 5.5860E-04 3.0071E-09		E- A A+ A++ A+++	2.7567E-02 4.8312E-01 2.0674E-03 1.0389E-09 1.4037E-20	5.7638E-01 4.3697E-03 2.6237E-01 1.5662E-01 2.5954E-04 5.5925E-10	6.0401E-01 2.9210E-03 1.8316E-01 2.0888E-01 1.0272E-03 1.0820E-08
A+++ A+++ A++++	4.7217E-01 5.6205E-02 4.7108E-01 5.4209E-04 3.9927E-11 3.6008E-23 6.2305E-40	5.6272E-01 5.4636E-03 3.0106E-01 1.3063E-01 1.327E-04 1.4483E-10 1.8687E-19	5.9065E-01 3.8375E-03 2.2092E-01 1.8403E-01 5.5860E-04 3.0071E-09 3.1162E-17		E- A A+ A++ A+++ A+++	2.7567E-02 4.8312E-01 2.0674E-03 1.0389E-09 1.4037E-20 7.4567E-36	5.7638E-01 4.3697E-03 2.6237E-01 1.5662E-01 2.5954E-04 5.5925E-10 1.7202E-18	6.0401E-01 2.9210E-03 1.8316E-01 2.0888E-01 1.0272E-03 1.0820E-08 2.6325E-16
A+++ A+++ A++++ AV AVI	4.7217E-01 5.6205E-02 4.7108E-01 5.4209E-04 3.9927E-11 3.6008E-23 6.2305E-40 8.5203E-62	5.6272E-01 5.4636E-03 3.0106E-01 1.3063E-01 1.3297E-04 1.4483E-10 1.8687E-19	5.9065E-01 3.8375E-03 2.2092E-01 1.8403E-01 5.5860E-04 3.0071E-09 3.1162E-17 3.3210E-28		E- A A+ A++ A+++ A+++ AV	2.7567E-02 4.8312E-01 2.0674E-03 1.0389E-09 1.4037E-20 7.4567E-36 7.0220E-56	5.7638E-01 4.3697E-03 2.6237E-01 1.5662E-01 2.5954E-04 5.5925E-10 1.7202E-18 3.9832E-30	6.0401E-01 2.9210E-03 1.8316E-01 2.0888E-01 1.0272E-03 1.0820E-08 2.6325E-16 7.9647E-27
A+++ A+++ A++++	4.7217E-01 5.6205E-02 4.7108E-01 5.4209E-04 3.9927E-11 3.6008E-23 6.2305E-40	5.6272E-01 5.4636E-03 3.0106E-01 1.3063E-01 1.327E-04 1.4483E-10 1.8687E-19	5.9065E-01 3.8375E-03 2.2092E-01 1.8403E-01 5.5860E-04 3.0071E-09 3.1162E-17		E- A A+ A++ A+++ A+++	2.7567E-02 4.8312E-01 2.0674E-03 1.0389E-09 1.4037E-20 7.4567E-36	5.7638E-01 4.3697E-03 2.6237E-01 1.5662E-01 2.5954E-04 5.5925E-10 1.7202E-18	6.0401E-01 2.9210E-03 1.8316E-01 2.0888E-01 1.0272E-03 1.0820E-08 2.6325E-16

 $p_1 = 100.N/m^2$

P1 =	1.00E+02 N/SQ-M	, US1= 1.08E+0	4 M/SEC		'P1 =	1.00E+02 N/SQ-M	. US1= 1.15E+0	4 M/SEĆ
			•		-			
	MOULTING CHOCK		0.50 55750 SHOCK			MONTHE CHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK	STANDING SHOCK 1.8912E+04	REFLECTED SHOCK 2.6066E+04		P	1.9514E+03	2.0846E+04	2.85668+04
Ť	1.7255€+03	1.0431E+02	1.1344E+02		1		1.1004E+02	1.20798+02
RHO	6.6989E+01 1.3051E+01	7.5604E+01	8.9545E+01		RHO	1.2667E+01	7.4782E+01	8. 721 5E + 01
H.	3.72368+02	6.8129E+02	7.9995E+02		н,	4.2191E+02	7.7082E+02	9.0310E+02
П. А		1.3421E+01	1.4569E+01		Ä	1.0599E+01	1.4226E+01	1.5552E+01
Š.	1.01946+01	1.8717E+00	1.9473E+00		ŝ	1.78576+00	1.9441E+00	2.0246E+00
Z	1.7275E+00 1.9737E+00	2.3981E+00	2.566 0E+00		ž.	2.0464E+00	2.5333E+00	2.7115E+00
GAME	7.8602E-01	7.2007E-01	7.2913E-01		GAME	7.2917E-01	7.2603E-01	7.3843E-01
U	3.0909E+01	5.3438E+00	5.2966E+00		Ü .	3.2829E+01	5.5663E+00	5.5719E+00
•	3.07070.02	3031302100	,		_			
			•					127.17
SPEC LÉ	5	- MOLE FRACTIONS			SPEC IE	2	- MOLE FRACTIONS	
E-	4.9335E-01	5.8300E-01	6.1029E-01		E-	5.1134E-01	6.0526E-01	6.3120E-01
Ā	1.7840E-02	3.8806E-03	2.5141E-03	**	A	6.1309E-03	2.5146E-03	1.3781E-03
A+ .	4.8428E-01	2.4360E-01	1.6548E-01		A+ .	4.5373E-01		1.0755E-01
A++ .	4.5365E-03	1.6917E-01	2.2035E-01		A++··	2.8800E-02	2-1107E-01	2.5595E-01
A+++	7.1070E-09	3.5228E-04	1.3703E-03		A+++ .	· 7.3220E-07	9.8553E-04	3.9147E-03
A++++	4.7079E-19	1.0422E-09	1.9943E-08		A++++	2.3498E-15	9.0262E-09	1.9840E-07
AV	1.8507E-33	4.7930E-18	7.3035E-16		AV	1.1983E-27	1.7535E-16	3.5432E-14
AVI	2.0045E-52	1.8131E-29	3.6384E-26		AVI	4.6318E-44	3.8749E-27	1.22508-23
IIVA	1.5399E-78	3.8934E-45	2.6525E-40		IIVA	9.2567E-67	8.9678E-42	1.1839E-36
IIIVA	0.	1.5886E-64	6.7098E-58		AVIII	0.	5.7978E-60	6.0452E-53
•						•		
		'						
						•		
-4			÷					
P1 =	1.00E+02 N/SQ-M	, US1= 1.10E+0	4 M/SEC		· PI =	1.00E+02 N/SQ-M	. US1= 1.20E+0	4 M/SEC
			•				•	
	MOVING SHBCK	STANDING SHOCK	REFLECTED SHOCK			_MOVING SHOCK	STANDING SHOCK	REFLECTÉD SHOCK
ρ.	1.7876E+03	1.9313E+04	2.6555E+04		P	2.1261E+03	2.2915E+04	3.1392E+04
Ť	6.9795E+01	1.0583E+02	1.1529E+02		T	7.9109E+01	1.1487E+02	1.2743E+02
RHO	1.2843E+01	7.4913E+01	8.8360E+01		RHO	1.2770E+01	7.5774E+01	8.7566E+01
Н	3.86176+02	7.0593E+02	8.2808E+02		н	4.5935E+02	8.3989E+02	9.8435E+02
A	1.0352E+01	1.3638E+01	1.4827E+01		A	1.0904E+01	1.4880E+01	1.6328E+01
S	1.7445E+00	1.8927E+00	1.9694E+00.		S	1.8261E+00	1.9947E+00	2.0781E+00
Z	1.9942E+00	2.4360E+00	2.606 8E+00		Z	2.1046E+00	2.6325E+00	2-8133E+00
GAME	7.6986E-01	7.2143E-01	7.31558-01		GAME	7.1415E-01	7.3218E-01	7.4367E-01
Ü	3.1439E+01	5.3962E+00	5.3648E+00		Ü	3.4280E+01	5.7857E+00	5.8328E+00
			•					
SPECIE	_		·					
	2 2	- MOLE FRACTIONS			SPECIE	s	- MOLE FRACTIONS	
E-		_				S 5.2485E-01	- MOLE FRACTIONS 6.2014E-01	6-4455E-01
E-	4.9855E-01	5.8949E-01	6.1638E-01		SPECIE E-, A	Tall the second	•	
A -	4.9855E-01 1.2032E-02	5.8949E-01 3.4400E-03	6.1638E-01 2.1484E-03		€-,	5.2485E-01 4.0925E-03	6.2014E-01 1.7657E-03	6-4455E-01 8-2056E-04
Ā - Ā+	4.9855E-01 1.2032E-02 4.8030E-01	5.8949E-01 3.4400E-03 2.2512E-01	6.1638E-01 2.1484E-03 1.4838E-01		E-,	5.2485E-01 4.0925E-03 4.1726E-01	6.2014E-01 1.7657E-03 1.3810E-01	6.4455E-01 8.2056E-04 7.3233E-02
A - A+ A++	4.9855E-01 1.2032E-02 4.8030E-01 9.1228E-03	5.8949E-01 3.4400E-03 2.2512E-01 1.8148E-01	6.1638E-01 2.1484E-03 1.4838E-01 2.3126E-01		E-, A A+	5.2485E-01 4.0925E-03 4.1726E-01 5.3788E-02	6.2014E-01 1.7657E-03 1.3810E-01 2.3796E-01	6.4455E-01 8.2056E-04 7.3233E-02 2.7287E-01
A + + + + + + + + + + + + + + + + + + +	4.9855E-01 1.203E-02 4.8030E-01 9.1228E-03 3.9801E-08	5.8949E-01 3.4400E-03 2.2512E-01 1.8148E-01 4.7418E-04	6.1638E-01 2.1484E-03 1.4838E-01 2.3126E-01 1.8287E-03		E-, A A+ A++	5.2485E-01 4.0925E-03 4.1726E-01 5.3788E-02 3.9176E-06	6.2014E-01 1.7657E-03 1.3810E-01 2.3796E-01 2.0425E-03	6.4455E-01 8.2056E-04 7.3233E-02 2.7287E-01 8.5206E-03
A+ A++ A+++	4.9855E-01 1.2032E-02 4.8030E-01 9.1228E-03 3.9801E-08 1.0914E-17	5.8949E-01 3.4400E-03 2.2512E-01 1.8148E-01 4.7418E-04 1.9239E-09	6.1638E-01 2.1484E-03 1.4838E-01 2.3126E-01 1.8287E-03 3.7079E-08	·	E-, A A+ A++	5.2485E-01 4.0925E-03 4.1726E-01 5.3788E-02 3.9176E-06 5.5138E-14	6.2014E-01 1.7657E-03 1.3810E-01 2.3796E-01 2.0425E-03 4.4056E-08	6.4455E-01 8.2056E-04 7.3233E-02 2.7287E-01 8.5206E-03 1.1675E-06
A + + + + + + + + + + + + + + + + + + +	4.9855E-01 1.2032E-02 4.8030E-01 9.1228E-03 3.9801E-08 1.0914E-17 2.5553E-31	5.8949E-01 3.4400E-03 2.2512E-01 1.8148E-01 4.7418E-04 1.9239E-09 1.3217E-17	6.1638E-01 2.1484E-03 1.4838E-01 2.3126E-01 1.8287E-03 3.7079E-08 2.0665E-15		E-, A A+ A++ A+++	5.2485E-01 4.0925E-03 4.1726E-01 5.3788E-02 3.9176E-06 5.5138E-14 1.8271E-25	6.2014E-01 1.7657E-03 1.3810E-01 2.3796E-01 2.0425E-03 4.4056E-08 2.5621E-15	6.4455E-01 8.2056E-04 7.3233E-02 2.7287E-01 8.5206E-03 1.1675E-06 7.3968E-13
A+++++++++++++++++++++++++++++++++++++	4.9855E-01 1.2032E-02 4.8030E-01 9.1228E-03 3.9801E-08 1.0914E-17 2.5353E-31 2.2007E-49	5.8949E-01 3.4400E-03 2.2512E-01 1.8148E-01 4.7418E-04 1.9239E-09 1.3217E-17 8.1651E-29	6.1638E-01 2.1484E-03 1.4838E-01 2.3126E-01 1.8287E-03 3.7079E-08 2.0665E-15 1.7184E-25		E-, A + + + + + + + + + + + + + + + + + + +	5.2485E-01 4.0925E-03 4.1726E-01 5.3788E-02 3.9176E-06 5.5138E-14 1.8271E-25 6.9191E-41	6.2014E-01 1.7657E-03 1.3810E-01 2.3796E-01 2.0425E-03 4.4056E-08 2.5621E-15 2.1790E-25	6.4455E-01 8.2056E-04 7.3233E-02 2.7287E-01 8.5206E-03 1.1675E-06
A + + + + + + + + + + + + + + + + + + +	4.9855E-01 1.2032E-02 4.8030E-01 9.1228E-03 3.9801E-08 1.0914E-17 2.5553E-31	5.8949E-01 3.4400E-03 2.2512E-01 1.8148E-01 4.7418E-04 1.9239E-09 1.3217E-17 8.1651E-29	6.1638E-01 2.1484E-03 1.4838E-01 2.3126E-01 1.8287E-03 3.7079E-08 2.0665E-15		E-, A++ A+++ A++++ AV	5.2485E-01 4.0925E-03 4.1726E-01 5.3788E-02 3.9176E-06 5.5138E-14 1.8271E-25	6.2014E-01 1.7657E-03 1.3810E-01 2.3796E-01 2.0425E-03 4.4056E-08 2.5621E-15	6.4455E-01 8.2056E-04 7.3233E-02 2.7287E-01 8.5206E-03 1.1675E-06 7.3948E-13 1.2080E-21

P1 = 1	.00E+02 N/SU-M	. US1= 1.25E+0	4 M/SEC	P1 = 1	.00E+02 N/SQ-M	, US1= 1.35E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	2.3099E+03	2.5266E+Q4	3.4669E+04	P	2.7015E+03	3.0459E+04	4.2015E+04
T	8.21905+01	1.2041E+02	1.3491E+02	7	· 8.7470E+01	1.3353E+02	1.4953E+02
RHO	1.2966E+01	7.6841E+01	8.8283E+01	RHO	1.3408E+01	7.8286E+01	9.0736E+01
Н	4.9843E+02	9.1238E+02	1.0706E+03	н	5.8143E+02	1.0665E+03	1.2545E+03
A	1.1237E+01	1.5588E+01	1.7080E+01	Ā	1.1936E+01	1.6998E+01	1.8433E+01
ŝ	1.8666E+00	2.0448E+00	2.1313E+00	· S	1.9486E+00	2.1431E+00	2.2352E+00
ž	2.1675E+00	2.7308E+00	2.9108E+00	ž	2.3034E+00	2.9137E+00	3.0968E+00
GAME	7.0876E-01	7.3897E-01	7.4287E-01	GAME	7.0717E-01	7.4263E-01	7.3382E-01
Ü	3.5754E+01	6.0419E+00	6.1280E+00	Ü	3.8720E+01	6.6413E+00	6.7137E+00
				• -			***************************************
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	5.3864E-01	6.3380E-01	6.5645E-01	E-	5.6586E~01	6.5679E-01	6.7708E-01
Ā	3.0393E=03	1.1611E-03	4.5855E-04	· A	1.8704E-03	4.1260E-04	1.5402E-04
A+	3.7802E-01	1.0053E-01	4.7640E-02	A+	2.9876E-01	4.6432E-02	2.1208E-02
A++	4.0292E-02	2.6024E-01	2.7755E-01	A++	1.3345E-01	2.7874E-01	2.4890E-01
A+++	1.2429E-05	4.2613E-03	1.7895E-02	A+++	6.4599E-05	1.7619E-02	5.2554E-02
A++++	5.08166-13	2.2730E-07	6.7423E-06	A++++ .	1.3385E-11	6.1862E-06	1.0552E-04
AV	6.543 BE-24	4.2022E-14	1.5474E-11	AV	1.3773E-21	1.2602E-11	2.0471E-09
IVA	1.3069E-38	1.4781E-23	1.2263E-19	AVI	3.5608E-35	8.4158E-20	
AVII	5.6193E-59	1.4087E-36	7.5424E-31	AVII	5.24058-54	3.9898E-31	4.3671E-26
AVIII	5.6185E-84	6.9497E-53	4.8849E-45	IIIVA	3.59318-77	1.8715E-45	1.6083E-38
	•				•		
P1 = 1	.00E+02 N/SQ-M	• US1= 1-30E+0	4 M/SEC	P1 = 1	.00E+02 N/SQ-M	. USI= 1.40E+0	04 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK
P	2.5018E+03	2.7792E+04	3.8241E+04	P	2.9087E+03	3.3249E+04	4.5936E+04
T	8.4915E+01	1.2671E+02	1.4245E+02	r	8.9964E+01	1.4034E+02	1.5615E+02
RHO	1.3188E+01	7.7638E+01	8.9360E+01	RHO .	1.3612E+01	7-9011E+01	9.2193E+01
н '	5.3913E+02	9.8792E+02	1.1609E+03	н.	6.2533E+02	1.1480E+03	1.3510E+03
A	1.158lE+01	1.6315E+01	1.7768E+01	A	1.2304E+01	1.7619E+01	1.9108E+01
S	1.9074E+00	2.0943E+00°	2.1837E+00	S	1.9902E+00	2 • 191 2E + 00	2.2860E+00
2	2.2340E+00	2.8251E+00	3.0041E+00	Z	2.3753E+J0	2.9985E+00	3.1908E+00
GAME	7.0705E-01	7.4363E-01	7.3771E-01	GAME	7.0845E-01	7-3769E-01	7.3279E-01
U	3.7236E+01	6.3366E+00	6.4306E+00	U	4.0203E+01	6.9362E+00	6.9741E+00
SPEC IES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	5.5237E-01	6.4603E-01	6.6713E-01	E-	5.7900E-01	6.6651E-01	6.8660E-01
A A	2.3622E-03	7.0835E-04	2.5901E-04	Ä	1.4858E-03	2.4271E-04	9.5446E-05
	3.3821E-01	6.93896-02	3.1229E-02	Ã+	2.6015E-01	3.1315E-02	1.4812E-02
A++	1.0703E-01	2.7499E-01	2.6829E-01	A++	1.5923E-01	2.7065E-01	2.2397E-01
A+++	3.0474E-05	8.8826E-03	3.3066E-02	A+++	1.2545E-04	3.1264E-02	7.4239E-02
		1.2230E-06		A++++ ·	5.1991E-11	2.5538E-05	2.8487E-04
A++++	2.9659E-12 1.161dE-22	7.57036-13	3.0932E-05	AV	1.2970E-20	1.5246E-10	1.2669E-08
AV			2.2617E-10	IVA	9-8832E-34	3.81785-18	
IVA	9.2041E-37	1.17256-21	7.4540E-18				3.8888E-15
IIVA						1 02215-20	
IIIVA	2.7141E-56 2.9138E-80	8.0402E-34 3.9558E-49	2.9886E-28 1.7326E-41	IIVA IIIVA	6.2262E-52 2.1825E-74	1.0321E-28 3.7076E-42	2.8843E-24 5.1324E-36

P1 = 1.00E+02 N/3Q-	11 031- 1.455+0	DA WASER	F1 - 1	**************************************	031- 1.555	A MESEC
*		•		•		
			•			0.551.55.555
MOVING SHOCK			•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P 3.1233E+03	3.6153E+04		P	3.5737E+03	4.2115E+04	5.8194E+04
f 9.2475E+01	1.4677E+02	1.6254E+02	Ť	9.7853E+01	1.5857E+02	1.7541E+02
RHD 1.3789€≠01	'7.9898E+01	9.3521F+01	RHO	1.4037E+01	8.1537E+01	9.5193E+01
H 6:7081E+02	1.2326E+03	1.4505E+03	н	7.6653E+02	1.4104E+03	1.6595E+03
A 1.2687E+01	1.8219E+01	1.9804E+01	Α -	1.3521E+01	1.9449E+01	2-1285E+01
S 2.0323E+00	2.2389E+00	2.3364E+00	S	2.1175E+00	2.3339E+00	2.4375E+00
Z 2.4493E+00	3.0830E+00	3.2869F+00	. Ž	- 2.6019E+00	3.2573E+00	3.4852E+00
GAME 7.1068E-01	7.3354E-01	7.3410E-01	GAME	7.1803E-01	7.3236E-01	7.4108E-01
U 4.1681E+01	7.1994E+00	7.2182E+00	u	4.4617E+01	7.6922E+00	7.7122E+00
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					-	•
SPECIES	- MOLE FRACTIONS	:	SPECIES		- MOLE FRACTIONS	
SPECIES	- HOLL TRACTIONS	,	3rcc1c3		HOLE TRACTIONS	,
F 33.735 01	4 35445 01	4 05775 01	E-	6.1566E-01	4 0300E-01	7 12075 01
E- 5.9172E-01	6.7564E-01	6.9577E-01	_		6.9299E-01	7.1307E-01
A' 1.1713E-03	1.4890E-04	6.0168E-05	Α	6.8307E-04	6.1397E-05	2.3039E-05
A+ 2.2272E-01		1.0463E-02	A+	1.5238E-01		5.0782E-03
A++ 1.8416E-01.	2.5358E-01	1.9649E-01	A++	2.3054E-01	2.0601E-01	1.4014E-01
A+++ / 2.3110E=04	4.8807E-02	9.6565E-02	A+++	7.3413E-04	8.9299E-02	1.3902E-01
A++++ 1.8579E-10	8.1989E-C5	6.5653E-04	A+++	2.2035E-09	4.7995E-04	2.6591E-03
AV	1.2281E-09	6.0813E-08	AV	6.9321E-18	3.1833E-08	9-27328-07
AVI 2.3547E-32	9.55286-17	4.6401E-14	AVI	1.1384E~29	1.5604E-14	3.6769E-12
AVII 6.2615E-50	1.1406E-26	1.1226E-22	1 I VA	`5.2283E~46	2.05476-23	7.4326E-20
AVIII 1.2163E-71	'2.3289E-39	8.0295E-34	1 I I VA	2.6311E-66	7.0368E-35	
	,					
	US1- 1 F05-0	O/ W/CEG		005.03 N/50-W	US1- 1 (OF-O	
P1 = 1.00E+02 N/SQ-M	. US1= 1.50E+0	04 M/SEC	P1 = 1	.00E+02 N/SQ-M	, US1= 1.60E+0	4 M/SEC
P1 = 1.00E+02 N/SQ-M	. US1= 1.50E+0	04 M/SEC	P1 = 1	.00E+02 N/SQ-M	, US1= 1.60E+0	4 M/SEC
• 1			P1 = 1			
MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
MOVING SHUCK P , 3.3450E+03	STANDING SHOCK 3.9119E+04	REFLECTED SHOCK	P .	MOVING SHOCK 3.8091E+03	STANDING SHOCK 4.5075E+04	REFLECTED SHOCK 6.2286E+04
MOVING SHUCK P 3.3450E+03 T 9.5078E+01	STANDING SHOCK 3.9119E+04 1.5280E+02	REFLECTED SHOCK 5.4068E+04 1.6090E+02	Р [*] Т	MOVING SHOCK 3.8091E+03 1.0090E+02	STANDING SHOCK 4.5075E+04 1.6423E+02	REFLECTED SHOCK 6.2286E+04 1.8215E+02
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01	P T RHO	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01
MOVING SHUCK P 3.3450E+03 T 9.5078E+01	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01 1.3201E+03	REFLECTED SHOCK 5.4068E+04 1.6090E+02	P T RHO H	MOVING SHOCK 3.8091E+03 1.0090E+02	STANDING SHOCK 4.5075E+04 1.6423E+02	REFLECTED SHOCK 6.2286E+04 1.8215E+02
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01	P T RHO	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01
MOVING SHUCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01 1.3201E+03	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03	P T RHO H	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03
MOVING SHUCK P 3.3450E+03 T 9.5078E+01 RHD 1.3938E+01 H 7.1788E+02 A 1.3091E+01	STANDING SHOCK 3-9119E+04 1-5280E+02 8-078E+01 1-3201E+03 1-8825E+01	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01	P T RHO H	MUVING SHUCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+30	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00
MOVING SHUCK P 3.3450E+03 T 9.5078E+01 RHO 1.3939E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+00 Z 2.5250E+00	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01 1.3201E+03 1.8825E+01 2-2864E+00	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00	P T RHO H A S	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 2.6790E+00	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00	REFLECTED SHOCK 6.2286E+04 1.0215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00
MOVING SHUCK P 3.3450E+03 T 9.507BE+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1343E-01	STANDING SHOCK 3.9119E-04 1.5280E-02 6.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3-1691E+00 7-3186E-01	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01	P T RHO H A S Game	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 2.6790E+00 7.2348E-01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01
MOVING SHUCK P 3.3450E+03 T 9.5078E+01 RHO 1.3939E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+00 Z 2.5250E+00	STANDING SHOCK 3.9119E-04 1.5280E-02 6.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3-1691E+00 7-3186E-01	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00	P T RMO H A S Z	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 2.6790E+00	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00	REFLECTED SHOCK 6.2286E+04 1.0215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00
MOVING SHUCK P 3.3450E+03 T 9.507BE+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1343E-01	STANDING SHOCK 3.9119E-04 1.5280E-02 6.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3-1691E+00 7-3186E-01	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01	P T RHO H A S Game	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 2.6790E+00 7.2348E-01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+J0 Z 2.5250E+00 GAME 7.1383E-01 U 4.3153E+01	STANDING SHOCK 3.9119E-04 1.5280E+02 8.0788E+01 1.3201E+33 1.8825E+01 2.2864E+30 3.1691E+00 7.3186E-01 7.4541E+00	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00	P T RHO H A S Z GAME U	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+J0 2.6790E+00 7.2348E-01 4.6070E+01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01 7.9301E+00	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1385E+01 U 4.3153E+01	STANDING SHOCK 3.9119E-04 1.5280E-02 6.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3-1691E+00 7-3186E-01	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00	P T RHO H A S Game	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+J0 2.6790E+00 7.2348E-01 4.6070E+01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00
MOVING SHUCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1383E-01 U 4.3153E+01	STANDING SHOCK 3.9119E+04 1.5280E+02 6.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3.1691E+00 7.3186E-01 7.4541E+00	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00	P T RHO H A S Z GAME U	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+30 2.6790E+00 7.2348E-01 4.6070E+01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E+01 7.9301E+00	REFLECTED SHOCK 6.2286E+04 1.0215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHD 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1385E-01 U 4.3153E+01 SPECIES	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3.1691E+00 7.3186E-01 7.4541E+00 - MOLE FRACTIONS 6.8445E-01	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 7.2348E-01 4.6070E+01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01 7.9301E+00	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1383E+01 U 4.3153E+01 SPECIES E- 6.0397E-01 A 9.0721E-04	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01 1.3201E+03 1.8825E+01 2.2864E+00 3.1691E+00 7.3186E+01 7.4541E+00 - MOLE FRACTIONS 6.8445E-01 9.4750E-05	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+30 2.6790E+00 7.2348E-01 4.6070E+01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 7.3445E-01 7.9301E+00 - MOLE FRACTIONS 7.0126E-01 3.9785E-05	REFLECTED SHOCK 6.2286E+04 1.0215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00
MOVING SHUCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1343E-01 U 4.3153E+01 SPECIES E- 6.0397E-01 A 9.0721E-04 A+ 1.8670E-01	STANDING SHOCK 3.9119E+04 1.5280E+02 6.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3.1691E+00 7.3186E-01 7.4541E+00 - MOLE FRACTIONS 6.8445E-01 9.4750E-05 1.5481E-05	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00	P T RHO H A S G G G S P E C I S E A A	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 7.2348E-01 4.6070E+01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E+01 7.9301E+00 - MOLE FRACTIONS 7.0126E+01 3.9785E+05 8.0418E+03	REFLECTED SHOCK 6.2286£+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00 7.2109E-01 1.3621E-05 3.4229E-03
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1385E-01 U 4.3153E+01 SPECIES E- 6.0397E-01 A 9.0721E-04 A+ 1.8670E-01 A++ 2.0801E-01	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3.1691E+00 7.4186E-01 7.4541E+00 - MOLE FRACTIONS 6.8445E-01 9.4750E-05 1.5481E-02 2.3117E-01	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00 7.0660E-01 3.7693E-05 7.3545E-03 1.6816E-01	P T RHO H A S Z GAME U SPECIES E- A A+ A+	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 7.2348E-01 4.6070E+01 	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01 7.9301E+00 - NOLE FRACTIONS 7.0126E-01 3.9785E-05 8.0418E-03 1.7974E-01	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5856E+00 7.4538E-01 7.9776E+00 7.2109E-01 1.3621E-05 3.4229E-03 1.1366E-01
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1343E-01 U 4.3153E+01 SPECIES	STANDING SHOCK 3.9119E+04 1.5280E+02 6.0786E+01 1.3201E+03 1.8825E+01 2.2864E+00 3.1691E+00 7.3186E-01 7.4541E+00 - MOLE FRACTIONS 6.8445E-01 9.4750E-05 1.5481E-02 2.3117E-01 6.8592E-02	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00 7.9660E-01 3.7693E-05 7.3545E-03 1.6816E-01 1.1849E-01	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A++	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+30 2.6790E+00 7.2348E-01 4.6070E+01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01 7.9301E+00 - MOLE FRACTIONS 7.0126E-01 3.9785E-05 8.0418E-03 1.7974E-01 1.0994E-01	REFLECTED SHOCK 6.2286±04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00 7.2109E-01 1.3621E-05 3.4229E-03 1.1366E-01 1.5690E-01
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+00 Z 2.5250E+00 GAME 7.1383E+01 U 4.3153E+01 SPECIES E- 6.0397E-01 A 9.07721E-04 A+ 1.8670E-01 A++ 4.1379E-04 A++ 4.379E-04 A+++ 6.3769E-10	STANDING SHOCK 3.9119E+04 1.5280E+02 6.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3.1691E+00 7.3186E-01 7.4541E+00 - MOLE FRACTIONS 6.8445E-01 9.4750E-05 1.5481E-02 2.3117E-01 6.8592E-32 2.1362E-34	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00 7.0460E-01 3.7693E-05 7.3545E-03 1.6816E-01 1.1849E-01 1.3665E-03	P T RHO H A S Z GAME U SPECIES E- A + A++ A+++ A++++ A++++	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 7.2348E-01 4.6070E+01 6.2673E-01 4.9355E-04 1.2013E-01 2.5133E-01 1.3141E-03 7.9111E-03	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01 7.9301E+00 MULE FRACTIONS 7.0126E-01 3.9745E-05 8.0418E-03 1.7974E-01 1.0994E-01 9.7377E-04	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00 7.2109E-01 1.3621E-05 3.4229E-03 1.1366E-01 4.9115E-03
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1343E-01 U 4.3153E+01 SPECIES E- 6.0397E-01 A 9.0721E-04 A+ 1.8670E-01 A++ 4.1379E-04 A+++ 6.3969E-10 AV 8.6379E-19	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3.1691E+00 7.3186E-01 7.4541E+00 - MOLE FRACTIONS 6.8445E-01 9.4750E-05 1.5481E-02 2.3117E-01 6.8592E-32 2.1362E-34 7.0463E-09	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00 7.0460E-01 3.7693E-05 7.3545E-03 1.6816E-01 1.1849E-01 1.3665E-03 2.4930E-07	P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A++++ AV	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 7.2348E-01 4.6070E+01 	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01 7.9301E+00 - MOLE FRACTIONS 7.0126E-01 3.9785E-05 8.0418E-03 1.7974E-01 1.0994E-01	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00 7.2109E-01 1.3621E-05 3.4229E-03 1.1366E-01 1.5690E-01
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+00 Z 2.5250E+00 GAME 7.1383E+01 U 4.3153E+01 SPECIES E- 6.0397E-01 A 9.07721E-04 A+ 1.8670E-01 A++ 4.1379E-04 A++ 4.379E-04 A+++ 6.3769E-10	STANDING SHOCK 3.9119E+04 1.5280E+02 6.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3.1691E+00 7.3186E-01 7.4541E+00 - MOLE FRACTIONS 6.8445E-01 9.4750E-05 1.5481E-02 2.3117E-01 6.8592E-32 2.1362E-34	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00 7.0460E-01 3.7693E-05 7.3545E-03 1.6816E-01 1.1849E-01 1.3665E-03	P T RHO H A S Z GAME U SPECIES E- A + A++ A+++ A++++ A++++	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 7.2348E-01 4.6070E+01 6.2673E-01 4.9355E-04 1.2013E-01 2.5133E-01 1.3141E-03 7.9111E-03	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01 7.9301E+00 MULE FRACTIONS 7.0126E-01 3.9745E-05 8.0418E-03 1.7974E-01 1.0994E-01 9.7377E-04	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00 7.2109E-01 1.3621E-05 3.4229E-03 1.1366E-01 1.5690E-01 4.9115E-03
MOVING SHOCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1343E-01 U 4.3153E+01 SPECIES E- 6.0397E-01 A 9.0721E-04 A+ 1.8670E-01 A++ 4.1379E-04 A+++ 6.3969E-10 AV 8.6379E-19	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3.1691E+00 7.3186E-01 7.4541E+00 - MOLE FRACTIONS 6.8445E-01 9.4750E-05 1.5481E-02 2.3117E-01 6.8592E-32 2.1362E-34 7.0463E-09	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00 7.0460E-01 3.7693E-05 7.3545E-03 1.6816E-01 1.1849E-01 1.3665E-03 2.4930E-07	P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A++++ AV	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+00 7.2348E-01 4.6070E+01 	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E-01 7.9301E+00 MOLE FRACTIONS 7.0126E-01 3.9785E-05 8.0418E-03 1.7974E-01 1.0994E-01 9.7377E-04 1.2240E-07	REFLECTED SHOCK 6.2286E+04 1.8215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880C+00 3.5854E+00 7.4538E-01 7.9776E+00 7.2109E-01 1.3621E-05 3.4229E-03 1.1366E-01 1.5690E-01 4.9115E-03 3.2143E-03
MOVING SHUCK P 3.3450E+03 T 9.5078E+01 RHO 1.3933E+01 H 7.1788E+02 A 1.3091E+01 S 2.0747E+30 Z 2.5250E+00 GAME 7.1343E-01 U 4.3153E+01 SPECIES E- 6.0397E-01 A 9.0721E-04 A+ 2.0801E-01 A++ 2.0801E-01 A+++ 6.3969E-10 AV 8.6379E-19 AVI 5.2768E-31	STANDING SHOCK 3.9119E+04 1.5280E+02 8.0786E+01 1.3201E+33 1.8825E+01 2.2864E+30 3-1691E+00 7.3186E-01 7.4541E+00 - MOLE FRACTIONS 6.8445E-01 9.4750E-05 1.5481E-02 2.3117E-01 6.8592E-32 2.1362E-34 7.0463E-09 1.4544E-15	REFLECTED SHOCK 5.4068E+04 1.6890E+02 9.4565E+01 1.5533E+03 2.0528E+01 2.3868E+00 3.3852E+00 7.3706E-01 7.4637E+00 7.0460E-01 3.7693E-05 7.3545E-03 1.6816E-01 1.1849E-01 1.3665E-03 2.4930E-07 4.4174E-13	P T RHO H A S Z GAME U SPECIES E- A A++++ A++++ AV AV I	MOVING SHOCK 3.8091E+03 1.0090E+02 1.4091E+01 8.1675E+02 1.3985E+01 2.1603E+30 2.6790E+00 4.6070E+01	STANDING SHOCK 4.5075E+04 1.6423E+02 8.1993E+01 1.5033E+03 2.0094E+01 2.3814E+00 3.3474E+00 7.3445E+01 7.9301E+00 - MOLE FRACTIONS 7.0126E+01 3.9785E+05 8.0418E+03 1.7974E+01 1.0994E+01 9.7377E+04 1.2240E+07 1.3254E+13	REFLECTED SHOCK 6.2286£+04 1.0215E+02 9.5373E+01 1.7692E+03 2.2063E+01 2.4880E+00 3.5854E+00 7.4538E-01 7.9776E+00 7.2109E-01 1.3621E-05 3.4229E-03 1.1366E-01 1.5690E-01 4.9115E-03 3.2143E-06 2.7871E-11

PI = I	.00E+02 N/SQ-M	, US1= 1.65E+0	4 M/SEC	P1 = 1	1.00E+02 N/SU-M	US1= 1.75E+0	4 M/SEC
					HOATNE FHOCK	CTANDING CHOCK	DEEL FETED CHOCK
		STANDING SHOCK	REFLECTED SHOCK	Р	MOVING SHOCK		
<u> </u>	4.0507E+03	4.7936E+04	6.6245E+04	Ť	4.5521E+03 1.1287E+02	5.3182E+04 1.8165E+02	7.3607E+04
T.	1.0435E+02	1.6990E+02	1.8918E+02	KHO	1.39146+01	8.0812E+31	2.0375E+02 9.3091E+01
	1.40895+01	8.2046E+01	9.5023E+01	H	9.7674E+02	1.7963E+03	2.1173E+03
	8.68535+02	1.5986E+03	1.8819E+C3	Ä	1.5569E+01	2.2146E+01	2.4348E+01
A .	1.4489E+01	2.0760E+01	2.2849E+01	ŝ	2.28805+00	2.5249E+00	2.6403E+00
s	2.20325+00	2.4291E+00	2.5386F+00	ž	2.89d6E+30	3.6228E+00	3.8807E+00
2	2.7554E+00	3.4389E+00	3.6851E+00	GAME	7.40926-01	7.4526E-01	7.4972E-01
GAME	7.3019E-01	7.3766E-31	7.4888E-01	U	5.0340E+01	8.6820E+00	8.8150E+00
U	4.75095+01	8.1704E+00	8.241 OE+CO	•	3.0340[.01	0.00200.00	0101702400
SPEC IES		- MOLE FRACTIONS		SPECIE:	· s	~ MULE FRACTIONS	
3		MOCC TRACTIONS	-			4	
E- '	. 6.37675-01	7.0921E-01	7.28646-01	E-	6.5501E-01	7.2397E-01	7.4231E-01
Α .	.: 3.3695E-J4	2.5398E-05	7.7448E-06	A	1.2728E-04	9.5061E-06	2.3220E-06
Δ+ .	9.0520E-02		2.2422E-03	A+	4.3633E-02	2.7445E-03	9.0698E-04
A++	2.6966E-01	1.5348E-01	8.9629E-02	A++	2.9232E-01	1.0433E-01	5.2172E-02
A+++ `	. 2.4130E-03	1.2972E-01	1.7079E-01	A+++	8.9108E-03	1.6322E-01	1-8145E-01
A++++	3.0743E-08	1.8414E-03	8.6760E-03	A++++	6.1765E-07	5.7230E-03	2.3062E-02
Ąν	6.1038E-16	4.2291E-07	1.0521E-05	AV	1.0478E-13	4.1548E-06	
AVI ;	1.0005E-26		1.9624E-10	AVI	2.3493E-23	3.9529E-11	7.0830E-09
AVII	9.38446-42	9.3027E-21	2.8417E-17	IIVA	7.3075E-37	2.3434E-18	6.2871E-15
AVIII	1.6905E-60	3.3080E-31	2.5309E-26	IIIVA	7.6287E-54	7.0894E-28	4.7456E-23
			÷ .				
P1 = 1	.00F+02 N/Su-M	. US1≈ 1.70F+0)4 M/SEC	P1 =	1.00E+02 N/SQ-M	, US1= 1.80E+0	04 M/SEC
P1 = 1	.00E+32 N/Su-M	, US1= 1.70E+C	94 M/ŞĘC	P1 =	1.00E+02 N/SQ-M	, US1= 1.80E+0	04 M/SEC
P1 = 1				P1 =			
**	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P ::	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK 7.0015F+04	P	MOVING SHOCK 4.8128E+03	STANDING SHOCK 5.5730E+04	REFLECTED SHOCK 7.7201E+04
P :	MOVING SHOCK 4.2984E+03 1.3833E+02	STANDING SHOCK 5.0640E+04 1.7561E+02	REFLECTEU SHOCK 7.0015E+04 1.9646E+02	P T	MOVING SHOCK 4.8128E+03 1.1771E+02	STANDING SHOCK 5.5730E+04 1.8791E+02	REFLECTED SHOCK 7.7201E+04 2.1101E+02
P T RHO	MOVING SHOCK 4.2984E+03 1.3833E+02 1.4025E+01,	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01	REFLECTEU SHOCK 7.0015F+04 1.9646E+02 9.4178E+01	P T RHO	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3797E+01	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9859E+01	REFLECTED SHOCK 7-7201E+04 2-1101E+02 9-1990E+01
P :	MOVING SHOCK 4.2984E+03 1.2833E+02 1.4025E+01, 9.2186E+02	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03	REFLECTED SHOCK 7.0015F+04 1.9646E+02 9.4178E+01 1.9980E+03	P T RHO H	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3797E+01 1.0332E+03	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9859E+01 1.8990E+03	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03
P T RHO H	MOVING SHOCK 4.2984E+03 1.3833E+02 1.4025E+01 9.2186E+02 1.5031E+01	STANDING SHOCK 5-0640E+04 1-7561E+02 8-1699E+01 1-6964E+03 2-1438E+01	REFLECTEU SHOCK 7.0015F+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3623E+01	P T RHD H	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3797E+01 1.0332E+03 1.6042E+01	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9459E+01 1.8990E+03 2.2849E+01	REFLECTED SHOCK 7+7201E+04 2+1101E+02 9+1990E+01 2+2393E+03 2+5050E+01
P T RHO H A S	MOVING SHOCK 4.2984E+03 1.3833E+02 1.4025E+01, 9.2186E+02 1.5031E+01 2.2458E+00	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00	REFLECTEU SHOCK 7.0015F+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3620E+01 2.5897E+00	P T RHO H A S	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3797E+01 1.0332E+03 1.6042E+01 2.3295E+00	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9859E+01 1.8990E+03 2.2849E+01 2.5725E+00	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00
P T RHO H A S Z	MOVING SHOCK 4.2984E+03 1.9833E+02 1.4025E+01. 9.2186E+02 1.5031E+01 2.2458E+00 2.8292E+00	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.524EE+00	REFLECTED SHOCK 7.0015E+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3620E+01 2.5897E+00 3.7841E+00	P T RHO H A S Z	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3747E+01 1.0332E+03 1.6042E+J1 2.3295E+00 2.9634E+00	STANDING SHOCK 5.5730E+04 1.3791E+02 7.9359E+01 1.3990E+03 2.2849E+01 2.5725E+00 3.7138E+00	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00
P T RHO H A S Z GAME	MOVING SHOCK 4-29846+03 1-3838+02 1-40256+01, 9-21866+02 1-50316+01 2-24586+00 2-82926+00 7-37166-01	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.5246E+00 7.4143E-01	REFLECTED SHOCK 7.0015E+04 1.9646E+02 9.4174E+01 1.9980E+03 2.3629E+01 2.5897E+00 3.7841E+00 7.5042E-01	P T RHO H A S Z GAME	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3797E+01 1.0332E+03 1.6042E+01 2.3295E+00 2.9634E+00 7.3772E-01	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9859E+01 1.9990E+03 2.2849E+01 2.5725E+00 3.7138E+00 7.4810E-01	REFLECTED SHOCK 7.7201E+04 2.11.01E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01
P T RHO H A S Z	MOVING SHOCK 4.2984E+03 1.9833E+02 1.4025E+01. 9.2186E+02 1.5031E+01 2.2458E+00 2.8292E+00	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.524EE+00	REFLECTED SHOCK 7.0015E+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3620E+01 2.5897E+00 3.7841E+00	P T RHO H A S Z	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3747E+01 1.0332E+03 1.6042E+J1 2.3295E+00 2.9634E+00	STANDING SHOCK 5.5730E+04 1.3791E+02 7.9359E+01 1.3990E+03 2.2849E+01 2.5725E+00 3.7138E+00	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.2984E+03 1.3833E+02 1.4025E+01. 9.2186E+02 1.5031E+01 2.2458E+00 2.6292E+00 7.371bE-01 4.8932E+01	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.5246E+00 7.4143E-01	REFLECTED SHOCK 7.0015E+04 1.9646E+02 9.417 dE+01 1.9980E+03 2.3620E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00	P T RHO H A S Z GAME	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3747E+01 1.0332E+03 1.6042E+01 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9859E+01 1.9990E+03 2.2849E+01 2.5725E+00 3.7138E+00 7.4810E-01	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00
P T RHO H A S Z GAME U	MOVING SHOCK 4.29846+03 1.3838+02 1.4025E+01, 9.21866+02 1.5031E+01 2.2458E+00 2.8292E+00 7.3716E-01 4.8932E+01	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.5296E+00 7.4143E-01 8.4174E+00	REFLECTEU SHOCK 7.0015E+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3629E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00	P T RHO H A S Z GAME U	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3797E+01 1.0332E+03 1.6042E+01 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9859E+01 1.8990E+03 2.2249E+01 2.5725E+00 3.7138E+00 7.4810E-01 8.9537E+00	REFLECTED SHOCK 7.7201E+04 2.11.01E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4.2984E+03 1.3833E+02 1.4025E+01. 9.2186E+02 1.5031E+01 2.2458E+00 2.0292E+00 7.371bE-01 4.8932E+01	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.5296E+00 7.4143E-01 8.4174E+00	REFLECTEU SHOCK 7.0015E+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3629E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00	P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3777E+01 1.0332E+03 1.6042E+01 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9859E+01 1.8990E+03 2.2849E+01 2.5725E+00 3.7138E+00 7.4810E-01 8.9537E+00	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4.2984E+03 1.883E+02 1.4025E+01. 9.2186E+02 1.5031E+01 2.2458E+00 2.8292E+00 7.371bE-01 4.8932E+01	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 7.4143E-01 8.4174E+00 MULE FRACTIONS 7.1669E-01 1.5914E-05	REFLECTEU SHOCK 7.0015E+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3620E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00	P T RHO H A S Z GAME U SPECIE E- A	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3747E+01 1.0332E+03 1.6042E+31 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01 S	STANDING SHOCK 5.5730E+04 1.0791E+02 7.9459E+01 1.0990E+03 2.2449E+01 2.5725E+00 3.7138E+00 7.4810E-01 8.9537E+00 - 40LE FRACTIONS 7.3073E-01 5.5463E-06	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4-29846+03 1-3833E+02 1-025E+01, 9-21866+02 1-5031E+01 2-2458E+00 2-8292E+00 7-371bE-01 4-8932E+01	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.5296E+00 7.4143E-01 8.4174E+00	REFLECTED SHOCK 7.0015E+04 1.9646E+02 9.4174E+01 1.9980E+03 2.3629E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00 7.3573E-01 4.2538E-06 1.4338E-06	P T RHO H A S Z GAME U SPECIE E- A A+	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3797E+01 1.0332E+03 1.6042E+01 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01 S 6.6256E-01 7.3786E-05 2.8847E-02	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9859E+01 1.9990E+03 2.2849E+01 2.5725E+00 3.7138E+00 7.4810E-01 8.9537E+00 - 40LE FRACTIONS 7.3073E-01 5.5463E-06 1.8325E-03	REFLECTED SHOCK 7.7201E+04 2.11.01E+02 9.1990E+01 2.2393E+03 2.5950E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4.2984E+03 1.3833E+02 1.4025E+01. 9.2186E+02 1.5031E+01 2.458E+00 2.8292E+00 7.3718E-01 4.8932E+01 6.4654E-01 2.1426E-04 6.4544E-02 2.441E-01	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.5296E+00 7.4143E-01 8.4174E+00 MULE FRACTIONS 7.1669E-01 1.5914E-05 4.0366E-03 1.2843E-01	REFLECTEU SHOCK 7.0015F+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3620E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00 7.3573E-01 4.2538E-06 1.4308E-03 6.8872E-02	P T RHD H A S Z GAME U SPECIE E- A A+ A++	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3747E+01 1.0332E+03 1.6042E+01 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01 S 6.6256E-01 7.3786E-05 2.8847E-02 2.9187E-01	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9459E+01 1.9990E+03 2.2849E+01 2.5725E+00 3.7138E+00 7.810E-01 8.9537E+00 - 4DLE FRACTIONS 7.3073E-01 5.5463E-06 1.8323E-03 8.2959E-02	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00 7.4856E-01 1.2736E-06 5.7493E-04 3.9129E-02
P T RHO H A S Z GAME U SPECIES E A A + A + A + + + A + + + + + + + + +	MOVING SHOCK 4.29846+03 1.3838+02 1.4025E+01, 9.21866+02 1.5031E+01 2.2458E+00 2.8292E+00 7.3716E-01 4.8932E+01	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.0964E+03 2.1438E+01 2.4762E+00 3.5296E+00 7.4143E-01 8.4174E+00	REFLECTEU SHOCK 7.0015E+04 1.9646E+02 9.4178E+01 1.9800E+03 2.3620E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00 7.3573E-01 4.2538E-06 1.4338E-03 6.8872E-02 1.7931E-01	P T RHO H A S Z GAME U SPECIE E- A A+ A++ A+++	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3797E+01 1.0332E+03 1.60+2E+01 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01 6.6256E-01 7.3786E-05 2.8847E-02 2.9187E-01 1.6655E-02	STANDING SHOCK 5.5730E+04 1. 4791E+02 7. 9459E+01 1. 9990E+03 2. 2249E+01 2. 5725E+00 3.7138E+00 7. 4810E-01 8. 9537E+00 - 40LE FRACTIONS 7. 3073E-01 5. 5463E-06 1. 8320E-03 8. 2959E-02 1. 7491E-01	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00 7.4856E-01 1.2736E-06 5.7493E-04 3.9129E-02 1.7741E-01
P T RHO H A S Z GAME U SPECIES E - A + A + + A + + + A + + + + + + + + +	MOVING SHOCK 4.2984E+03 1.2833E+02 1.4025E+01. 9.2186E+02 1.5031E+01 2.2458E+00 2.8292E+00 7.3718E-01 4.8932E+01 6.4654E-01 2.1426E-04 5.4544E-02 2.6411E-01 4.5499E-03 1.3259E-07	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.5296E+00 7.4143E-01 8.4174E+00	REFLECTED SHOCK 7.0015E+04 1.9646E+02 9.417dE+01 1.9880E+03 2.3629E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00 7.3573E-01 4.2538E-06 1.43J8E-03 6.8872E-02 1.7931E-01 1.4616E-02	P T RHD H A S Z Z GAME U SPECIE E- A A+ + A+++ A++++ A++++	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3747E+01 1.0332E+03 1.6042E+01 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01 S 6.6256E-01 7.3786E-05 2.8847E-02 2.9187E-01 1.6655E-02 2.7357E-02	STANDING SHOCK 5.5730E+04 1.879IE+02 7.9459E+01 1.9990E+03 2.2449E+01 2.5725E+00 3.7138E+00 7.4810E-01 8.9537E+00 - 4DLE FRACTIONS 7.3073E-01 5.5463E-06 1.8323E-03 8.2959E-02 1.749IE-01 9.552IE-03	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00 7.4856E-01 1.2736E-06 5.7493E-04 3.9129E-02 1.7741E-01 3.4092E-02
P T RHO H A S Z GAME U S PEC IES E - A + A + + A + + + A + + + A + + A + + A + + A	MOVING SHOCK 4.2984E+03 1.3833E+02 1.4025E+01. 9.2186E+02 1.5031E+01 2.2458E+00 2.8292E+00 7.3718E-01 4.8932E+01 0.4654E-01 2.1426E-04 6.4544E-02 2.8411E-01 4.5699E-03 1.3259E-07 7.4345E-15	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.5296E+00 7.4143E-01 8.4174E+00 - MULE FRACTIONS 7.1669E-01 1.5914E-05 4.0366E-03 1.2843E-01 1.4755E-01 3.2851E-03 1.3392E-06	REFLECTEU SHOCK 7.0015E+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3623E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00 7.3573E-01 4.2538E-06 1.4338E-03 6.8872E-02 1.7931E-01 1.4616E-02 3.2320E-05	P T RHD H A S Z GAME U SPEC IE E- A A+ A++ A+++ AV	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3747E+01 1.0332E+03 1.6042E+01 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01 S 6.6256E-01 7.3786E-05 2.8847E-02 2.9187E-01 1.6655E-02 2.7357E-06	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9459E+01 1.9990E+03 2.2849E+01 2.5725E+00 3.7138E+00 7.810E-01 8.9537E+00	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00 7.4856E-01 1.2736E-06 5.7493E-04 3.9129E-02 1.7741E-01 3.4092E-02 2.2371E-04
P T RHO H A S Z GAME U SPECIES E A A + A + + + A + + + + A V I	MOVING SHOCK 4.29846+03 1.3838+02 1.4025E+01, 9.21866+02 1.5031E+01 2.2458E+00 2.8292E+00 4.8932E+01 6.4654E-01 2.1426E-04 6.4544E-02 2.8411E-01 4.5899E-03 1.3259E-07 7.4345E-15 4.3268E-25	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.5296E+00 7.4143E-01 8.4174E+00	REFLECTEU SHOCK 7.0015E+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3629E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00 7.3573E-01 4.2538E-06 1.43J8E-03 6.8872E-02 1.7931E-01 1.4616E-02 3.2320E-05 1.2704E-09	P T RHO H A S Z GAME U SPEC IE E- A A+ A++ A+++ AV	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3797E+01 1.0332E+03 1.6042E+01 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01 S 6.6256E-01 7.3786E-05 2.98847E-02 2.9187E-01 1.6655E-02 2.7357E-06 1.3819E-12 1.1719E-21	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9859E+01 1.9990E+03 2.22849E+01 2.5725E+00 3.7138E+00 7.4810E-01 8.9537E+00 - MDLE FRACTIONS 7.3073E-01 5.5463E-06 1.8323E-03 8.2959E-02 1.7491E-01 9.5521E-03 1.2168E-05 2.3222E-10	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00 7.4856E-01 1.2736E-04 3.9129E-02 1.7741E-01 3.4092E-02 2.2371E-04 3.3908E-08
P T RHO H A S Z GAME U S PEC IES E - A + A + + A + + + A + + + A + + A + + A + + A	MOVING SHOCK 4.2984E+03 1.3833E+02 1.4025E+01. 9.2186E+02 1.5031E+01 2.2458E+00 2.8292E+00 7.3718E-01 4.8932E+01 0.4654E-01 2.1426E-04 6.4544E-02 2.8411E-01 4.5699E-03 1.3259E-07 7.4345E-15	STANDING SHOCK 5.0640E+04 1.7561E+02 8.1699E+01 1.6964E+03 2.1438E+01 2.4762E+00 3.5296E+00 7.4143E-01 8.4174E+00 - MULE FRACTIONS 7.1669E-01 1.5914E-05 4.0366E-03 1.2843E-01 1.4755E-01 3.2851E-03 1.3392E-06	REFLECTEU SHOCK 7.0015E+04 1.9646E+02 9.4178E+01 1.9980E+03 2.3623E+01 2.5897E+00 3.7841E+00 7.5042E-01 8.5215E+00 7.3573E-01 4.2538E-06 1.4338E-03 6.8872E-02 1.7931E-01 1.4616E-02 3.2320E-05	P T RHD H A S Z GAME U SPEC IE E- A A+ A++ A+++ AV	MOVING SHOCK 4.8128E+03 1.1771E+02 1.3747E+01 1.0332E+03 1.6042E+01 2.3295E+00 2.9634E+00 7.3772E-01 5.1745E+01 S 6.6256E-01 7.3786E-05 2.8847E-02 2.9187E-01 1.6655E-02 2.7357E-06	STANDING SHOCK 5.5730E+04 1.8791E+02 7.9459E+01 1.9990E+03 2.2849E+01 2.5725E+00 3.7138E+00 7.810E-01 8.9537E+00	REFLECTED SHOCK 7.7201E+04 2.1101E+02 9.1990E+01 2.2393E+03 2.5050E+01 2.6913E+00 3.9772E+00 7.4771E-01 9.0909E+00 7.4856E-01 1.2736E-06 5.7493E-04 3.9129E-02 1.7741E-01 3.4092E-02 2.2371E-04

	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	4.7899E+01	8.4644E+01	2.6029E+02	р .	6.9075E+01	1.2909E+02	3.6353E+02
Ť	1.28925+01	1.6278E+01	2.7833E+01	Ť	1.8178E+01	2.3361E+01	3.2955E+01
RHO	3.71556+00	5.2000E+00	9.31568+00	RHO	3.7999E+00	5.5231E+00	1.0790E+01
н	1.2892E+01	1.6278E+01	2.8890E+01	н.	1.81826+01	2.3506E+01	3.9129E+01
A .	3.5905E+00	4.0340E+00	4.8877E+00	Ä.	4.2594E+00	4.7284E+00	5.0131E+00
ŝ	i-1015E+00	1.1020E+00	1.1149E+00	Š	1.1213E+00	1.1221E+00	1.1350E+00
Ž	1.00305+30	1.0000E+00	1.0039E+00	ž	1.0030E+00	1.0005E+00	1.02236+00
GAME	1.00005+00	9.9973E-01	8.5500E-01	GAME	9.9803E-01	9.5653E-01	7.4595E-01
U	4.5391E+J0	3.2318E+00	3.0171E+00	Ü	5.49 35 6+ 30	3.7644E+00	2. 9776E+00
SPEC 1E	s	- MOLE FRACTIONS		SPEC LE	s	- MOLE FRACTIONS	
E-	1.0421E-08	1.46 J2E-06	3.8743E-03	r_	1.3207E-05	5.4517E-04	2 17005 02
Α .	1.0000E+00	1.4802E-08	9.9225E-C1	E	9.9997E-01	9.98916-01	2-1799E-02 9-5640E-01
Δ+	1.04215-08	1.4602E-06	3.8743E-03	Ã+	1.3207E-05	5.4517E-04	2.1799E-02
A++	1.8068E-32	9.7870E-26	2.52576-13	A++	3.7015E-22	2.0166E-16	1.1158E-10
A+++	4.6451E-72	1.0424E-56	5.4497E-32	A+++	1.24748-50	5.9445E-39	3.2858E-26
A++++	0.	0.	1.76788-61	A++++		5.4311E-74	
AV).	0.	0.	AV	υ. υ.		8.7360E-51
AVI	ő .	j.	j.	IVA	J.	0. 1.	1.7741E-83
AVII	J.	0.	0.	AVII	j.		0.
IIIVA	J.	0.	ŏ.	IIIVA) .). 0.	0.
****	J.		٠.	ATILL	,,	٠.	0.
P1 =	2.00E+0? N/SQ-M	, US1= 2-20E+0	3 M/SEC	P1 = .	2:00E+02 N/SQ-M	, US1= 2.6JF+0	3 M/SEC
	MUVING SHOCK	STANDING SHOCK			MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK
P	5.8003E+01	1.0505E+02	3.116CE+02	P	8.11676+01	1.6391F+02	4.2015E+02
T	1.5416E+01	1.9661E+01	3.0804E+01	T,	2.1152E+01	2.7235E+J1	3.4738E+01 :
RHO	3.7625E+00	5.3428E+00	9.9995E+00	RHO	3.8368£+0C	5.99576+00	1.1679E+01
н	1.5416E+01	1.96728+01	3.39928+01	н	. 2.11935+31	2.8252E+01	4.466 JE+01
A	3.9261E+00	4.4224E+00	4.934 JE + 00	A	4.5615E+00	4.8324E+J0	5.1144E+00
S	1.1118E+00	1.1124E+30	1.12518+00	S	1.1303E+00	1.1313E+00	1.1454E+00
2	· 1.0000E+00	1.000 DE +00	1.0116E+00	l	1.00026+00	1.0038E+J0	1.0356E+00
GAME	9.9988E-01	9.9471E-01	7.8124E-01	GAME	9.8356F-01	8.5420E-01	7.27135-01
ຼັບ	5.0154E+00	3.5195E+00	3.04/8E+00	u ·	5.9684E+3J	3.8004E+00	2.9137E+00
SPEC 1E	s 	- MOLE FRACTIONS		SPEC IE	5	- MOLE FRACTIONS	
E-	5.626 FF-07	4.189JE-05	1.1468E-02	E-	1.55706-04	3.7378E-03	3.4351E-02
A	1.0000E+00	9.9992E-01	9.7706E-C1	A	9.9969E-C1	9.92526-01	9.3130E-01
A +	5.82648-07	4.1850E-05	1.1468E-02	A+	1.557JE-04	3.7378E-03	3.4351E-02
A++	d.6647E-27	2.9343F-20	1.1229E-11	A++	2.1607E-18	L-6173E-13	5.87156-10
A+++	1.6508E-61	3.6816E-47	2.0477E-28	A+++	3.5004E-43	1.3769E-32	1.2510E-24
A++++	J.	0.	5.1527E-55	A++++	2.45845-82	3.7352E-63	6.5965E-48
AV	2.	o.	2.9489E-90	AV	J.	0.	4.8036E-79
AVI).	.0.	o.	AVI	0.	ō.	0.
IIVA	J.	o.	C.	IIVA	j.	0.	0.
LIIVA	0.	0.	0.	111VA).	j.	0.
		_	•				

P1 =	2.00E+02 N/SQ-M	US1= 2.80E+0	3 M/SEC	P1.= .	2.00E+02 N/SU-M	. US1= 3.20E+0	3 M/SEC

•	MENING SHOCK		REFLECTED SHOCK	_			REFLECTED SHOCK
P	9.4537E+01	2.1364E+02	4.8648E+02	P	1.2699E+02	3.6113E+02	6.9441E+02
1	2.4197E+01	3.0531E+01	3.6325E+01	. 1	2.92666+01	3.5261E+01	3.9433E+01
- RHO	3.4029E+00	6.9101E+00	1 - 2740E + 01	RHO	4.2957E+00	9.8051E+00	1.6129E+01
н .	2.4477E+01	3.4011E+01	5.0708E+01	н	3.2036E+01	4.7700E+01	6.5511E+01
A	4.7443E+00	4.8879E+00	5.2298E+00	A	4.8106E+00	5-1442E+00	5.5109E+00
5	1.1387E+00	1.1405E+00	1.1564E+20	S	1.1551E+00	1.1605E+J0	1.1803E+00
2	1.0010E+00	1.0127E+00	1.0513E+00	Z	1.0101E+00	1.0445E+00	1.0918E+00
GAME	9.2924E-01	7.7276E-01	7.1624E~01	GAME	7.8280E-01	7.1850E-01	7.0540E-01
Ù	6.4664E+00	3.6347E+00		. U	7.6213E+00	3.3302E+00	2.7777E+00
. •	4 - 1 - 1 - 1 - 1			-		2000000	2011112100
			•				
SPEC I	ES	MOLE FRACTIONS		SPEC IE	s	- MOLE FRACTIONS	
E	1.0446E-03	1.25225-02	4.8753E-02	E-	1.0037E-02	4.2616E-02	8-4074E-02
A	9-97916-01	9.7496E-01	9.0249E-01	Ä	9.7993E-01	9.14776-01	8.3185E-01
A+ ·	1.0446E-03	1.2522E-02	4.8753E-02	Ä÷	1.0037E-02	4-2616E-02	8.4074E-02
A##	1.5131E-15	1.1715E-11	2.1955E-09	A++	3.8659E-12	1.1231E-09	1.9543E-08
A+++	5.1127E-37		2.34416-23	A+++	1.0917E-29	4.5909E-24	3.3043E-21
A++++		2.7105E-55	1.5088E-45	A++++	9.1885E-59	6.2824E-47	1.6700E-41
AV	0.25200-11	4.0733E-90	2.4823E-75	AV		1.4164E-77	9.95298-69
AVI	0.			ÄVI	o.		
			0.		.ე.	0.	Q.
IIVA	0.	0.	0.	AVII	2.	0.	0.
IIIVA	э.	0.	0.	111VA	0.	0.	0.
1 L. 1							
	**						
7							
	•						
P1 =	2.00E+02 N/SQ-M	US1= 3.00E+0	3 M/SEC	P1 =	2.00E+02 N/SU-M	. US1 = 3.40E+0	3 M/SEC
				• •			
			1.0				
	MOVING SHOCK		REFLECTED SHOCK	•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P '	1.09542+02	2.7706E+02	5.7330E+Q2	P	1.4613E+02	4.6587E+02	8.4561E+02
T	2.6968E+01	3.3079E+01	3.7863E+01	T	3.11065+01	3.7182E+01	4.0972E+01
RHO	4.0453E+00	8.1592E+00	1.4153E+01	RHD	4.61 39E+00	1.1761E+31	1.8488E+01
н	2.80678+31	4.U436E+01	5.7576E+01	н	3.6296E+01	5.5582E+01	7.4218E+01
Ä	4.7854E+00	4.99915+00	5.361 0E+00	Ä	4.86748+00	5.3022E+00	5.6707E+00
ŝ	1.1469E+00	1.1502E+00	1.1680E+30	ŝ	1.1635E+00	1.1716E+00	1.1934E+00
ž	1.00416+00	1.0265E+00	1.0695E+00	ž	1.01898+00	1.0654E+30	1.1163E+00
GAME	8.4574E-01	7.3595E-01	7.09538-01	GAME	7.47528-01	7.0474E-31	7.0306E-01
u	7.00316+00	3.4551E+00	2.41886+00	u	8.26276+00	3.2273E+00	2.7531E+CO
·		3013310100	2102002-00	•	0.20212400	3,22,32,00	2.13312400
	: .	•					
SPECIE	S	MOLE FRACTIONS		SPECIE	5	- MOLE FRACTIONS	
E-	4.0414E-03	2.5861E-02	6.52656-02	E-	1.8522E-02	6.1347E-02	1.0421E-01
Ā	9.9192E-01	9.4828E-01	8.6947E-01	Ā	9.6296E-01	8.7731E-01	7.9158E-01
A+ 50 .	4.0414E-03	2.5861E-02	6.5265E-02	Ã+	1.8522E-02	6.1347E-02	1.04216-01
4++	1.5947E-13	1.66728-10	6.8886E-09	A++	3.4527E-11	4.8104E-09	4.92965-08
		6.4239E-26	3.07966-22	A+++			
A+++	1.0001E-32				1.4763E-27	1.2449E-22	2.7686E-20
A++++ '	2.8469E-63	2.2134E-50	1.9432E-43	A++++	1.5646E-53	3.1964E-44	9.1346E-40
AV	3.	5.1179E-83	7.8746E-72	AV	4.6968E-88	3.8944E-73	6-1899E-66
AVI	J.	,0.	Q•	I VA	0.	0.	0.
IIVA	0.	0.	0.	IIVA	0.	o.	0.
AAIII	,0₌	0.	0.	HIIVA	· 0.	0.	· 0.

	MUVING SHOCK	STANDING SHOCK	REFLECTED SHUCK	· e	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	
ο `	1.66881+02	5.9175E+02	1.0277E+03	P	2.12615+02	9.1349E+02	1.4830E+03	
ř	3.2633F+01	3.8926E+01	4.2477E+01	Ť	3.5123E+01	4.2094E+01	4.5381E+01	
RHD	4.9666E+30	1.3966E+01	2.1165E+01	RHO	5.7337E+00	1.9025E+01	2.7174E+01	
Н	4.0835£+01	6.4015E+01	8.3647E+01	H ·	5.0690E+01	8.2487E+01	1.0436E+02	
A		5.4658E+00	5.8379E+00	Ä	5.1267E+00	5.8032E+00	6.1874E+00	
	4.9453E+00			Š		1.2099E+00	1.2373E+00	
S	1.1724E+00	1.1835E+00	1.2072E+00	_	1.19145+00			
7	1.0297E+00	1.0885E+00	1.1431E+00	1	1.0558E+00	1.1407E+00	1.2025E+00	
GAME	7.2783E-01	7.0508E-01	7.0187E-01	GAME	7.0881E-01	7.0138E-01	7.0152E-01	
U ,	8.91935+00	3.1648E+00	2.7401E+00	. U	1.0240E+01	3.0780E+00	2.7413E+00	
SPEC 1E	S	- MOLE FRACTIONS		SPEC 1ES		- MOLE FRACTIONS	,	
					Α.			
E-	2.8797E-02	8.13C7E-02	1.2521E-01	€-	5.2811E-02	1.2333E-01	1.6843E-01	
A	9.4241E-01	8.3739E-01	7.4958E-01	A	8.9438E-01	7.5335E-01	6.6314F-01	
A+	2.8797E-02	8.1307E-02	1.2521E-01	A+	5.2811E-02	1.2333E-01	1.6843E-01	
A++	1.7175E-10	1.5553E-J8	1.1270E-07	A++	1.6762E-09	9.8411E-08	4.6806E-07	
A+++	5.0198E-26	1.8199E-21	1.8762E-19	A+++	7.9347E-24	1.3066E-19	5.2687E-18	
A++++	1.0424E-50	4.9267E-42	3.3243E-38	A++++	1.2742E-46	1.6342E-38	1.8804E-35	
AV	1.3866E-83	1.1952E-69	1.84948-63	AV	4.3360E-77	6.3382E-64	5.7398E-59	
AVI	0.	0.	0.	ĀVI	3.	3.	5.6261 E-89	
AVII	٠. ١.	ŭ.	0.	IIVA	0.	ŏ .	0.	
AVIII) .	0.	0.	IIIVA	0.	0.	0.	
AVILL	J•		, v.	W4111	9.	٠.	٠.	
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1	** · · · · · · · · · · · · · · · · · ·		•					
' Pl =	2.00E+02 N/SU-M	US1= 3.80E+0	3 M/SEC	P1 = 2	.00E+02 N/SU-M	. USI= 4.20E+0	3 M/SEC	
	/	' /	1		-			
	HOUTHE SHOEK	CTANDING SHOCK	SEC CETED CURCH	,	MOUTHY SHOEL	CTANDING CURE	DEEL ECTED CHOCK	
		STANDING SHOCK	REFLECTED SHOCK	L	MOVING SHOCK	STANDING SHUCK		
P 1	1.8907F+02	7.4164E+02	1.2402E+03	P	2.37455+02	1.1097E+03	1.7568E+03	
T	3.3950E+01	4. U559E+01	4.3946E+01	<u> </u>	3.6188E+01	4.3563E+01	4.679JE+01	
RHO	5.3445E+00	1.6418E+01	2.4080E+01	RHO	6.1284E+00	2.1786E+01	3.0406E+01	
н	4.563oE+01	7.3016E+01	4.3709E+01	н /	5.5995E+01	9-2456E+01	1.1558E+02	
A	5.03355+00	5.6337E+30	6.0135E+00	A	5.22286+00	5.9752E+00	6.3686E+00	
S	1.18178+00	1.1963E+00	1.2219E+00	S	1.2017E+00	1.2242E+00	1.2535E+00	
Z	1.04205+00	1.1137E+00	1.1719E+00	Z	1.0707E+30	1.1692E+30	1.2348E+00	
GAME	7.1616E-01	7.0260E-01	7.0144E-01	GAME	7.9402E-01	7.0094E-01	7.0198E-01	
U	9.5803E+00	3-10526+00	2.7368E+00	U	1.0897E+01	3.0610E+00	2.7528E+00	
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS		
E-	4.0341E-02	1.0213E-01	1 • 46 72 E-01	E-	6.5993E-02	1.4475E-01	1.9016E-01	,
A	9.1932E-01	7.95742-01	7.0657E-01	A	8.68016-01	7.1050E-01	6.1969E-01	
A+	4.0341E-02	1.0213E-01	1.4672E-01	A+	6.5993E-02	1.4475E-01	1.9016E-01	
A++	5.0009E-10	4.1916E-08	2.37636-07.	A++ ·	3.9817E-09	2.0932E-07	8.7254E-07	
A+++	7.7115E-25	1.7957E-20	1.0747E-18	A+++	5.3107E-23	7.59598-19	2.27858-17	
A++++	1.14308-48	3.7717E-40	9.2961E-37	A++++	3.2182E-45	4.4936E-37	2.9289E-34	
AV	4.0379E-80	1.3859E-66	4.4767E-61	ÄV	9.9457E-75	1.2314E-61	4.30298-57	
AVI.	0.	0.	0.	AVI).	0.	1.9396E-86	
		0.		I I VA				
AVII	0.		0.		0.	o.	0.	
AVIII	ð.	0.	0.	1 1 I VA	J.	o.	0.	

P1 - 200 N/ m2

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• •				
MOVING SHOCK STANDING SHOCK REA	FLECTED SHOCK	MOVING SHOCK ST	ANDING SHOCK REFLECTE	D SHDCK
P 2.6355E+02 1.3317E+03	2.0602E+03	P 3.1970E+02		34E+03
T - 3.7176E+01 4.4984E+01	4.8169E+01	T 3.8982E+01		39E+01
RHD 6.5242E+00 2.4683E+01	3.37246+01	RHO 7.3123E+00		08E+01
H 6.1550E+01 1.0293E+02.	1.27246+02			
				58E+02
	6.5521E+00	A 5.5207E+00		85E+00
S 1.2124E+00 1.2393E+00	1.2702E+00	\$ 1.2351E+J0		60E+00:
Z 1.0866E+00 1.1994E+00	1.2683E+00	1.1216E+00	1.2640E+00 1.34	07E+00
GAME 7.0079E-01 7.0101E-01	7.0272E-01	GAME 6.9710E-01	7.0216E-01 7.04	9 OE - O 1
U 1.1550F+01 3.0454E+00	2.7552E+00	U 1.2852E+01 .	3.0660E+00 2.81	29E+00
•	*	•		
SPECIES MOLE FRACTIONS		SPECIES M	DLE FRACTIONS	
E- 7.9720E-02 1.6624E-01	2-1154E-01	E- 1.0838E-01	2.0885E-01 2.5	415E-01
A	5.7693E-01	A 7.8323E-01		171E-01
A+\ 7.9720E-02 \ 1.6624E-01	2.1153E-01	A+ 1.0838E-01		414E-01
A++ 8.4592E-09 4.1325E-07		A++ 3.0083E-08		770E-06
A+++ 2.9380E-22 3.7544E-18		A+++ 5.2625E-21		L 47E-15
A++++ 9.6538E-44 9.3203E-36		A++++ 2.3151E-41		
				L44E-31
		AV 1.1035E-68		290E-52
AVI 2.3553E-90		AC IVA	2.2830E-84 1.4	543E-78
AVII 0. 0.		AVII O.	0	
AVIII J. J.	0.	AVIII O.	0. 0.	
	•			
Approximately the second secon		•		
			· · · · · · · · · · · · · · · · · · ·	
P1 = 2.00E+02 N/SU-M. US1= 4.60E+03 M.	/SEC	P1 = 2.00F+02 N/S0-4.	US1 = 5-00F+03 M/SFC	
P1 = 2.00E+02 N/SU-M, US1= 4.60E+03 M	/SEC	P1 = 2.00E+02 N/SQ-M,	US1 = 5.00E+03 M/SEC	
	· • •			SHOCK
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK	MOVING SHOCK - ST	ANDING SHOCK' REFLECTE	
MOVING SHOCK STANDING SHOCK REI P 2.9090E+02 1.5778E+03	FLECTED SHOCK 2.3981E+03	MOVING SHOCK - ST/ P 3-4949E+02	ANDING SHUCK REFLECTE 2.1501E+03 3.17	70E+03
MOVING SHOCK STANDING SHOCK REI P 2.9090E+02 1.5778E+03 T 3.8132E+01 4.6362E+01	FLECTED SHOCK 2.3981E+03 4.9550E+01	MOVING SHOCK - ST/ P 3.4949E+02 T 3.982IE+01	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23	70E+03 L8E+01
MOVING SHOCK STANDING SHOCK REI P 2.9090E+02 1.5778E+03 T 3.81J2E+01 4.6362E+01 RHO 6.9181E+00 2.7649E+01	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01	MOVING SHOCK - ST/ P 3.4949E+02 T 3.982IE+01 RMO 7.6959E+30	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40	70E+03 18E+01 39E+01
MOVING SHOCK STANDING SHOCK REI P 2.9090E+02 1.5778E+03 T 3.8132E+01 4.6362E+01 RHO 6.9181E+00 2.7649E+01 H 6.7355E+01 1.1386E+02	FLECTED SHOCK 2.3981E+03 4.9550E+01 3.7124E+01 1.3958E+32	MOVING SHOCK - ST P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+JO H 7.9724E+01	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66	70E+03 L8E+01 39E+01 DLE+02
MOVING SHOCK STANDING SHOCK REI P 2.9090E+02 1.5778E+03 T 3.8132E+01 4.6362E+01 RHO 6.9181E+00 2.7649E+01 H 6.7355E+31 1.1386E+02 A 5.4199E+0C 6.3269E+00	FLECTED SHOCK 2.3981E+03 4.9550E+01 3.7124E+01 1.3958E+32 6.742IE+00	MOVING SHOCK STOP P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+JO H 7.9724E+01 A 5.6224E+90	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13	70E+03 L8E+01 39E+01 01E+02 31E+00
MOVING SHOCK STANDING SHOCK REI P 2.9090E+02 1.5778E+03 T 3.8132E+01 4.6362E+01 RHO 6.9181E+00 2.7649E+01 H 6.7355E+01 1.1386E+02 A 5.4199E+0C 6.3269E+00 S 1.2235E+00 1.2551E+00	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01 1.3958E + 32 6.7421E + 00 1.2877E + 90	MOVING SMOCK - STA P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+JO H 7.9724E+01 A 5.6224E+90 S 1.2472E+00	ANDING SHOCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 7.32	70E+03 18E+01 39E+01 01E+02 31E+00 48E+00
MOVING SHOCK STANDING SHOCK REI P 2.9090E+02 1.5778E+03 T 3.8132E+01 4.6362E+01 RHO 6.9181E+00 2.7649E+01 H 6.7355E+01 1.1386E+02 A 5.4199E+0C 6.3269E+00 S 1.2235E+00 1.2551E+00 Z 1.1036E+00 1.2309E+00	FLECTED SHOCK 2.3981E+03 4.9550E+01 3.7124E+01 1.3958E+32 6.742IE+00	MOVING SHOCK - STA P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+JO H 7.9724E+01 A 5.6224E+00 S 1.2472E+00 Z 1.1404E+00	ANDING SHOCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 7.32	70E+03 L8E+01 39E+01 01E+02 31E+00
MOVING SHOCK STANDING SHOCK REI P 2.9090E+02 1.5778E+03 T 3.8132E+01 4.6362E+01 RHO 6.9181E+00 2.7649E+01 H 6.7355E+01 1.1386E+02 A 5.4199E+0C 6.3269E+00 S 1.2235E+00 1.2551E+00	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01 1.3958E + 32 6.7421E + 00 1.2877E + 90	MOVING SMOCK - STA P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+JO H 7.9724E+01 A 5.6224E+90 S 1.2472E+00	ANDING SHOCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.32 1.2881E+00 1.37	70E+03 18E+01 39E+01 01E+02 31E+00 48E+00
MOVING SHOCK STANDING SHOCK REI P 2.9090E+02 1.5778E+03 T 3.8132E+01 4.6362E+01 RHO 6.9181E+00 2.7649E+01 H 6.7355E+01 1.1386E+02 A 5.4199E+0C 6.3269E+00 S 1.2035E+00 1.2551E+00 Z 1.1036E+00 1.2309E+00	FLECTED SHOCK 2.3981E+03 4.9550E+01 3.7124E+01 1.3958E+02 6.7421E+00 1.2877E+00 1.3037E+00	MOVING SHOCK - STA P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+JO H 7.9724E+01 A 5.6224E+00 S 1.2472E+00 Z 1.1404E+00	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.32 1.2981E+00 1.37 7.0309E-01 7.06	70E+03 18E+01 39E+01 01E+02 31E+00 48E+00 39E+00
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01 1.3958E + 32 6.7421E + 00 1.2877E + 00 1.3037E + 00 7.0370E - 01	MOVING SHOCK STA P 3.4949E+02 T 3.982E+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+00 S 1.2472E+00 Z 1.1494E+00 GAME 6.9611E-01	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.32 1.2981E+00 1.37 7.0309E-01 7.06	70E+03 18E+01 39E+01 01E+02 31E+00 48E+00 39E+00
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01 1.3958E + 02 6.7421E + 00 1.2877E + 00 1.3037E + 00 7.0370E - 01 2.7818E + 00	MOVING SHOCK STA P 3.49496+02 I 3.9821E+01 RHD 7.6959E+JO H 7.9724E+01 A 5.6224E+00 S 1.2472E+00 L 1.1494E+00 GAME 6.9611E-01 U 1.3491E+01	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.32 1.2981E+00 1.37 7.0309E-01 7.06	70E+03 18E+01 39E+01 01E+02 31E+00 48E+00 39E+00
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E+03 4.9550E+01 3.7124E+01 1.3958E+32 6.7421E+00 1.2877E+00 1.3037E+00 7.0370E-01 2.7818E+00	MOVING SHOCK STA P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+00 S 1.2472E+00 Z 1.1494E+00 GAME 6.961IE-01 U 1.349IE+01	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3772E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.32 1.2981E+00 7.05 0.856E+00 2.84	70E+03 18E+01 31E+02 31E+02 31E+00 48E+00 31E-01 35E+00
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01 1.3958E + 02 6.7421E + 00 1.2877E + 00 1.3037E + 00 7.0370E - 01 2.7818E + 00	MOVING SHOCK - STA P 3.49496+02 I 3.9821E+01 RHD 7.6959E+30 H 7.9724E+01 A 5.6224E+00 S 1.2472E+00 Z 1.1494E+00 GAME 6.9611E-01 U 1.3491E+01 SPECIES	ANDING SHOCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.37 7.0309E-01 7.06 3.0856E+00 2.84	70E+03 18E+01 39E+01 01E+02 31E+00 39E+00 39E+00 39E+00 31E-01 35E+00
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01 1.3958E + 32 6.7421E + 00 1.2077E + 90 1.3037E + 00 7.0370E - 01 2.7818E + 90	MOVING SMOCK - STA P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+90 S 1.2472E+00 Z 1.1494E+06 GAME 6.961IE-01 U 1.349IE+01 SPECIES	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.32 1.2981E+00 1.37 7.0309E-01 7.06 3.0856E+00 2.84	70E+03 18E+01 39E+01 39E+02 31E+00 48E+00 39E+00 31E-01 35E+00
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01 1.3958E + 32 6.7421E + 00 1.2877E + 00 1.3037E + 00 7.0370E - 01 2.7818E + 00 2.3293E - 01 5.3414E - 01 2.3293E - 01	MOVING SHOCK . STA P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+00 S 1.2472E+00 Z 1.1494E+00 GAME 6.9611E-01 U 1.3491E+01 SPECIES	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.32 1.2981E+00 1.37 7.0309E-01 7.06 3.0856E+00 2.84 DLE FRACTIONS 2.2966E-01 2.7 5.4068E-01 4.5 2.2966E-01 2.7	70E+03 18E+01 39E+01 30E+02 31E+00 48E+00 39E+00 31E-01 35E+00
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01 1.3958E + 02 6.7421E + 00 1.2877E + 00 1.3037E + 00 7.0370E - 01 2.7818E + 00 2.3293E - 01 2.3293E - 01 2.3293E - 01 2.3293E - 01 2.3659E - 06	MOVING SMOCK - STA P 3.4949E+02 I 3.982IE+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+00 Z 1.1494E+06 GAME 6.9611E-01 U 1.349IE+01 SPECIES	ANDING SHOCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.37 7.0309E-01 7.06 3.0856E+00 2.84 DLE FRACTIONS 2.2966E-01 2.7 5.4068E-01 4.5 2.2966E-01 2.7 2.3236E-06 7.3	70E+03 18E+01 99E+01 01E+02 91E+00 98E+00 99E+00 39E+00 39E+00 39E+00
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E+03 4.9550E+01 3.7124E+01 1.3958E+32 6.7421E+00 1.2077E+00 1.3037E+00 7.0370E-01 2.7818E+00 2.3293E-01 2.3293E-01 2.3293E-01 2.3298E-16	MOVING SHOCK . STA P 3.4949E+02 T 3.982E+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+00 S 1.2472E+00 Z 1.1494E+00 GAME 6.9611E-01 U 1.3491E+01 SPECIES	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 1.66 6.6910E+00 7.13 1.2886E+00 1.32 2.986E+00 2.84 DLE FRACTIONS	70E+03 18E+C1 39E+01 39E+00 48E+00 39E+00 39E+00 33E+00 476E-01 49E-01 475E-01 013E-05
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E+03 4.9550E+01 3.7124E+01 1.3958E+02 6.7421E+00 1.2077E+00 1.3037E+00 7.0370E-01 2.7818E+00 2.3293E-01 2.3293E-01 2.3293E-01 2.3298E-16	MOVING SMOCK - STA P 3.4949E+02 I 3.982IE+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+00 Z 1.1494E+06 GAME 6.9611E-01 U 1.349IE+01 SPECIES	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 1.66 6.6910E+00 7.13 1.2886E+00 1.32 2.986E+00 2.84 DLE FRACTIONS	70E+03 18E+01 99E+01 01E+02 91E+00 98E+00 99E+00 39E+00 39E+00 39E+00
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E+03 4.9550E+01 3.7124E+01 1.3958E+02 6.7421E+00 1.2877E+00 1.3037E+00 7.0370E+01 2.7818E+00 2.3293E-01 2.3293E-01 2.3293E-01 2.3298E-16 4.4759E-32	MOVING SHOCK . STA P 3.4949E+02 T 3.982E+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+00 S 1.2472E+00 Z 1.1494E+00 GAME 6.9611E-01 U 1.3491E+01 SPECIES	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 3.3767E+01 4.40 1.3722E+02 6.6910E+00 7.13 1.2886E+00 1.32 1.2981E+00 3.0856E+00 2.84 DLE FRACTIONS 2.2966E-01 2.7 5.4068E-01 2.2966E-01 2.3236E-06 7.33 2.2419E-16 3.6	70E+03 18E+C1 39E+01 39E+00 48E+00 39E+00 39E+00 33E+00 476E-01 49E-01 475E-01 013E-05
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01 1.3958E + 32 6.7421E + 00 1.2877E + 00 1.3037E + 00 7.0370E - 01 2.7818E + 00 2.3293E - 01 2.3293E - 01 2.3293E - 01 2.4659E - 06 3.2298E - 16 4.4759E - 32 1.4977E - 53	MOVING SMOCK - STA P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+70 S 1.2472E+00 Z 1.1494E+06 GAME 6.9611E-01 U 1.349IE+01 SPECIES	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.37 7.0309E-01 7.06 3.0856E+00 2.84 DLE FRACTIONS 2.2966E-01 2.7 5.4068E-01 4.5 2.2966E-01 2.7 2.3236E-06 7.3 2.2419E-16 3.6 2.1749E-32 4.3 4.7687E-54 2.5	70E+03 18E+01 99E+01 01E+02 98E+00 98E+00 39E+00 39E+00 39E+00 39E+00 135E+00 135E+00 135E+00 135E+01 145E-01 146E-01 146E-01 146E-01
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E +03 4.955E +01 3.7124E +01 1.3958E +02 6.7421E +00 1.2877E +00 1.3037E +00 7.0370E -01 2.7818E +00 2.3293E -01 2.3293E -01 2.659E -06 3.2298E -16 4.4759E -32 1.4977E -53 3.8615E - 81	MOVING SHOCK STA P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+00 Z 1.1494E+00 GAME 6.961IE-01 U 1.349IE+01 SPECIES	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.37 7.0309E-01 3.0856E+00 2.84 DLE FRACTIONS 2.2966E-01 2.7 5.4068E-01 2.2966E-01 2.7 2.2936E-06 7.33 2.2419E-16 3.6 2.1749E-32 4.7687E-54 9.1830E-82 2.8	70E+03 18E+01 99E+01 01E+02 91E+00 94E+00 94E+00 94E+00 185E+00 176E-01 075E-06 075E-06 075E-06 080E-30
MOVING SHOCK STANDING SHOCK REI	FLECTED SHOCK 2.3981E + 03 4.9550E + 01 3.7124E + 01 1.3958E + 32 6.7421E + 00 1.2877E + 30 1.3037E + 00 7.0370E - 01 2.7818E + 00	MOVING SMOCK - STA P 3.4949E+02 T 3.982IE+01 RHO 7.6959E+30 H 7.9724E+01 A 5.6224E+70 S 1.2472E+00 Z 1.1494E+06 GAME 6.9611E-01 U 1.349IE+01 SPECIES	ANDING SHUCK REFLECTE 2.1501E+03 3.17 4.9051E+01 5.23 3.3767E+01 4.40 1.3722E+02 1.66 6.6910E+00 7.13 1.2886E+00 1.37 7.0309E-01 7.06 3.0856E+00 2.84 DLE FRACTIONS 2.2966E-01 2.7 5.4068E-01 4.5 2.2966E-01 2.7 2.3236E-06 7.3 2.2419E-16 3.6 2.1749E-32 4.3 4.7687E-54 2.5	70E+03 18E+01 99E+01 01E+02 31E+00 38E+00 39E+00 31E+00 31E+00 34E+00

TABLE 1. - Continued

P1 = .	2.00E+02 N/SQ-M	US1 = 5.20E+0	3 M/SEC	Pi = 2	-00E+02 N/SU-M	, US1= 5.60E+0	3 M/SEC
-			REFLECTED SHOCK	. Р		STANDING SHOCK	
P .	3.8050E+02	2.4743E+03	3.6148E+03	. P	4.4620E+02	3.2077E+03	4.59398+03
1	.4.0628E+01	5.0370E+01	5.3712E+01	ŘHO	4.2169E+01	5.3016E+01	5.6585E+01
RHO	8.0728E+00	3.68376+01	4.7450E+01		8.8018E+30	4.2972E+01	5.4089E+01
н .	8.6278E+01	1.4957E+02	1.8002E+02	H	1.0014E+02	1.7576E+02	2.0970E+02
A	5.7255E+00	6.8777E+00	7.344 0E+00	A	5.9361E+00	7.2651E+30	7.7771E+00
S .	1.2596E+30	1.3062E+00	1.3441E+00	S	1.2857E+00	1.3428E+00	1 -384 2E+00
2	1.16018+00	1.3335E+00	1.4183E+00	2	1.2022E+00	1.4080E+00	1.501 OE+00
GAME	6.9551E-01	7.0422E-01	7.0796E-01	GAME	6.9509E-01	7.0709E-01	7.1213E-01
U	1.41276+01	3.1196E+09	2.8900E+00	U	1.53898+01	3.1559E+00	2.9848E+00
SPECIE:	s	- MULE FRACTIONS		SPEC IES	*******	- MOLE FRACTIONS	
_ •		*		_			
E -	1.3d02E-01	2.5011E-01	2.9495E-01	E	1.6816E-01	2.3977E-01	3.3377E-01
A	7.2396E-01	4.9978E-01	4.1012E-01	Ą	6.6368E-01	4.2048E-01	3.3250E-01
A+	1.3802E-01	2.5010E-01	2 • 94 92 E = 01	A +	1.6816E-01	2.8975E-01	3.3371E-01
A++	8.5838E-08	3.8386E-06	1-1723E-05	A++	2.1192E-37	9.81726-06	2.9193E-05
A+++	5.7313E-20	7.3989E-16	1.1175E-14	A+++	4.5587E-19	7.0141E-15	1.0040E-13
A++++ -	1.9917E-39	2.0500E-31	3.63d0E-29	A + + + +	9.65605-36	1.4409E-29	2.2624E-27
AV .	1.32745-65	1.6863E-52	7.6050E-49 .	AV	0.66235-63	1.6257E-49	5.7544E-46
AVI	0.	1.49815-79	4.1911E-74	AVI	0.	4.0408E-75	6.9955E-70
IIVA	J.	υ.	0.	I I VA	0.	0.	0.
IIIVA	0.	9.	e.	I I I VA	o.	0.	0.
	•						
P1 =	2.00E+02 N/SU-M	• US1= 5.40E+0	3 M/SEC	P1 = 2	-00E+02 N/54-M	, US1= 5.80E+0	3 M/SEC
P1 =				P1 = 2	•		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHUCK		MOVING SHUCK	STANDING SHUCK	REFLECTED SHOCK
ρ	MOVING SMOCK 4.1274E+02	STANDING SHOCK 2.8290E+33	REFLECTED SHUCK 4.0872E+03	Р	MOVING SHOCK 4.80885+02	STANDING SHOCK 3.0129E+03	REFLECTED SHOCK 5.1369E+03
P T	MOVING SHOCK 4.1274E+02 4.1409E+01	STANDING SHOCK 2.8290E+03 5.1693E+01	REFLECTED SHUCK 4.0872E+03 5.513IE+01	P T	MDVING SHUCK 4.80885+02 4.29136+01	STANDING SHOCK 3.0129E+03 5.4353E+01	REFLECTED SHOCK 5.1369E+03 5.8095E+01
P T RHO	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+00	STANDING SHOCK 2.829JE+03 5.1693E+01 3.9940E+01	REFLECTED SHUCK 4.0872E+03 5.5131E+01 5.0810E+01	Р Т RHO	MDVING SHUCK 4.80885+02 4.29136+01 9.15216+00	STANDING SHOCK 3.0129E+03 5.4353E+01 4.5943E+01	REFLECTED SHOCK 5.1369E+03 5.8095E+01 5.7262E+01
P T RHO H	MOVING SHOCK 4-1274E+02 4-1409E+01 8-4417E+03 -9-3085E+01	STANDING SHOCK 2.829JE+33 5.1693E+01 3.9940E+31 1.6244E+02	REFLECTED SHUCK 4.0872E+03 5.5131E+01 5.0810E+01 1.9458E+02	Р Т RHO H	MOVING SHUCK 4.80885+02 4.29136+01 9.1521E+00 1.0745E+02	STANDING SHUCK 3.0129E+03 5.4353E+01 4.5943E+01 1.8955E+02	REFLECTED SHOCK 5.1369E+03 5.8095E+01 5.7262E+01 2.2545E+02
P T RHO H	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.8300E+00	STANDING SHOCK 2.d290E+03 5.1693E+01 3.9940E+01 1.6244E+02 7.0693E+00	REFLECTED SHUCK 4.0872E+03 5.5131E+01 5.0810E+01 1.9458E+02 7.5567E+00	P T RHO H A	MOVING SHUCK 4.80885+02 4.29136+01 9.1521E+00 1.0745E+02 6.0437E+00	STANDING SHOCK 3.0129E+03 5.4353E+01 4.5943F+01 1.8955E+02 7.4662E+00	REFLECTED SHOCK 5-1369E+03 5-8095E+01 5-7262E+01 2-2545E+02 8-3079E+00
P T RHO H A S	MOVING SMOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+03 1.2725E+00	STANDING SHOCK 2-8290E+03 5-1693E+01 3-9940E+01 1-6244E+02 7-0693E+00 1-3243E+00	REFLECTED SHUCK 4.087 2E+03 5.5131E+01 5.0810E+01 1.9458E+02 7.5567E+00 1.3639E+00	P T RHO H A S	MOVING SHOCK 4,80885+02 4,2913E+01 9,1521E+00 1,0745E+02 6,0437E+00 1,2994E+00	STANDING SHOCK 3.0129E+03 5.4353E+01 4.5943F+01 1.8955E+02 7.4662E+30 1.3018E+00	REFLECTED SHOCK 5.1369E.03 5.8095E.01 5.7262E.01 2.2545E.02 8.3079E.30 1.404.9E.00
P T RHO H A S	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+03 1.725E+00 1.1807E+00	STANDING SHOCK 2.829JE+03 5.1693E+01 3.9940E+01 1.6244E+02 7.0693E+00 1.3243E+00 1.3702E+00	REFLECTED SHUCK 4.0872E+03 5.5131E+01 5.0810E+01 1.9458E+02 7.5567E+00 1.3639E+00 1.4591E+00	P T RHO H A S 2	MOVING SHUCK 4.80885+02 4.2913E+01 9.1521E+00 1.0745E+02 6.0437E+00 1.2994E+03	STANDING SHUCK 3.0129E+03 5.4353E+01 4.5943E+01 1.8955E+02 7.4662E+30 1.3618E+00 1.4468E+00	REFLECTED SHOCK 5-1369E+03 5-3095E+01 5-7262E+01 2-2545E+02 8-3079E+00 1-4049E+00 1-5442E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+03 1.2725E+00 6.9519E-31	STANDING SHOCK 2.4292±03 5.1693±01 3.9940±01 1.6244±02 7.0693±00 1.3243±00 1.3702±00 7.3556±01	REFLECTED SHUCK 4.087 2E+03 5.5131E+01 5.0810E+01 1.9458E+02 7.556 7E+00 1.3639E+00 1.4591E+00 7.0948E-01	P T RHO H A S Z GAME	MOVING SHUCK 4.80885-02 4.29137-01 9.1521E+00 1.07456-02 6.0437E+00 1.2994E+00 6.9518E-01	STANDING SHUCK 3.01296+03 5.43516+01 4.39438+01 1.89558+02 7.46628+00 1.36188+00 1.44688+00 7.08858-01	REFLECTED SHOCK 5.1369E+03 5.095E+01 5.7262E+01 2.2545E+02 8.3079E+00 1.4049E+00 7.1482E-01
P T RHO H A S	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+03 1.725E+00 1.1807E+00	STANDING SHOCK 2.829JE+03 5.1693E+01 3.9940E+01 1.6244E+02 7.0693E+00 1.3243E+00 1.3702E+00	REFLECTED SHUCK 4.0872E+03 5.5131E+01 5.0810E+01 1.9458E+02 7.5567E+00 1.3639E+00 1.4591E+00	P T RHO H A S 2	MOVING SHUCK 4.80885+02 4.2913E+01 9.1521E+00 1.0745E+02 6.0437E+00 1.2994E+03	STANDING SHUCK 3.0129E+03 5.4353E+01 4.5943E+01 1.8955E+02 7.4662E+30 1.3618E+00 1.4468E+00	REFLECTED SHOCK 5-1369E+03 5-3095E+01 5-7262E+01 2-2545E+02 8-3079E+00 1-4049E+00 1-5442E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3500E+00 1.2725E+00 1.1807E+00 6.9519E-01 1.4759E+01	STANDING SHOCK 2.4292±03 5.1693±01 3.9940±01 1.6244±02 7.0693±00 1.3243±00 1.3702±00 7.3556±01	REFLECTED SHUCK 4.087 2E+03 5.5131E+01 5.0810E+01 1.9458E+02 7.556 7E+00 1.3639E+00 1.4591E+00 7.0948E-01 2.9354E+00	P T RHO H A S Z GAME	MOVING SHUCK 4.80885-02 4.29137-01 9.1521E-00 1.0745E-02 6.0437E-00 1.2994E-03 1.2244E+00 6.9518E-01 1.6015E+01	STANDING SHUCK 3.01296+03 5.43516+01 4.39438+01 1.89558+02 7.46628+00 1.36188+00 1.44688+00 7.08858-01	REFLECTED SHOCK 5.1369E+03 5.8095E+01 5.7262E+01 2.2545E+02 8.3079E+00 1.4049E+00 1.5442E+00 7.1482E-01 3.0438E+00
P T RHO H A S Z GAME U	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+00 1.2725E+00 1.1807E+00 6.9519E-01 1.4759E+01	STANDING SHOCK 2.84992+03 5.16925+01 3.9940E+01 1.6246E+02 7.0693E+00 1.3243E+00 1.3702E+00 7.0556E-01 3.1230E+00	REFLECTED SHUCK 4.087 2E+03 5.51 31E+01 5.0810E+01 1.9458E+02 7.556 7E+90 1.3639E+00 1.4591E+00 7.0938E+01 2.9358E+00	P T RHO H A S Z GAME U	MOVING SHUCK 4.80885-02 4.29137-01 9.1521E-00 1.0745E-02 6.0437E-00 1.2994E-03 1.2244E+00 6.9518E-01 1.6015E+01	STANDING SHUCK 3.01296+03 5.43516+01 4.59436+01 1.89558+02 7.46626+00 1.36186+00 1.468600 7.08856-01 3.19466+00	REFLECTED SHOCK 5.1369E+03 5.095E+01 5.7262E+01 2.2545E+02 8.3079E+00 1.4049E+00 7.1482E-01 3.0438E+00
P T RHO H S S Z GAME U	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+03 1.2725E+00 1.1807E+00 6.9519E-01 1.4759E+01	STANDING SHOCK 2.8293E+03 5.1693E+01 3.9940E+01 1.6244E+02 7.0693E+00 1.3243E+00 1.3702E+00 7.0556E-01 3.1230E+00	REFLECTED SHUCK 4.087 2E+03 5.5131E+01 5.0810E+01 1.9458E+02 7.556 7E+00 1.3639E+00 1.4591E+00 7.0948E-01 2.9353E+00	P T RHO H A S Z Game U	MOVING SHUCK 4.80885-02 4.29135-01 9.15216-00 1.07456-02 6.04376-00 1.29946-03 1.22446-00 6.95186-01 1.60156-01	STANDING SHUCK 3.0129E+03 5.4353E+01 4.5943E+01 1.8955E+02 7.4662E+00 1.3618E+00 1.468E+00 3.1946E+00 - MOLE FRACTIUNS 3.0883E-01	REFLECTED SHOCK 5.1369E+03 5.8095E+01 5.7262E+01 2.2545E+02 8.3079E+00 1.4049E+00 1.5442E+00 7.1482E-01 3.0438E+00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+03 1.2725E+00 1.1807E+00 6.9519E-01 1.4759E+01	STANDING SHOCK 2.8290E+03 5.1693E+01 3.9940E+01 1.6244E+02 7.0693E+00 1.3702E+00 7.0556E-01 3.1230E+00	REFLECTED SHUCK 4.087 2E+03 5.5131E+01 5.0810E+01 1.9458E+02 7.556 TE+00 1.3639E+00 1.4591E+00 7.0938E-01 2.9358E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHUCK 4.80885=02 4.2913=01 9.1521E=00 1.0745E+02 6.0437E=00 1.2994E=01 1.294E+00 6.9518E=01 1.6015E+01 1.8328E-01 6.3343E-01	STANDING SHOCK 3.01296+03 5.43516+01 4.59436+01 1.89558+02 7.46628+00 1.44688+00 7.08858-01 3.19466+00 - MOLE FRACTIONS 3.08838-01 3.82358-01	REFLECTED SHOCK 5.1369E+03 5.8095E+01 5.7262E+01 2.2545E+02 8.3079E+00 1.4049E+00 7.1482E-01 3.0438E+00
P T RHO H A S C GAME U SPECIE:	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+03 1.2725E+00 1.1807E+00 6.9519E-31 1.4759E+01	STANDING SHOCK 2.84992+03 5.16925+01 3.9940E+01 1.6248+02 7.06935+00 1.32435+00 1.37026+00 7.0556E-01 3.1230E+00	REFLECTED SHUCK 4.087 2E+03 5.5131E+01 5.0810E+01 1.9458E+02 7.556 7E+00 1.3639E+00 1.4591E+00 7.0948E-01 2.9354E+00	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHUCK 4.80885 * 02 4.2913	STANDING SHUCK 3.01296+03 5.43516+01 4.5943F+01 1.8955E+02 7.4662E+00 1.3618E+00 1.4468E+00 3.1946E+00 - MOLE FRACTIONS 3.0883E-01 3.0880E-01 3.0880E-01 3.0880E-01	REFLECTED SHOCK 5.1369£03 5.095£01 5.7262£01 2.2545£02 8.3079£00 1.4049£00 1.5442£01 3.0438£00
P T RHO H A S Z GAME U SPECIE:	MOVING SMOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+03 1.2725E+00 1.1807E+00 6.9519E-01 1.4759E+01 S 1.5306E-01 6.9389E-01 1.5306E-01 1.3691E-07	STANDING SHOCK 2.8290E+03 5.1693E+01 3.9940E+01 1.6244E+02 7.0693E+00 1.3702E+00 7.0556E-01 3.1230E+00 4.5962E-01 2.7019E-01 6.2033E-01 6.2033E-06	REFLECTED SHUCK 4.087 2E+03 5.513 1E+01 5.081 0E+01 1.945 3E+00 1.4591E+00 7.098 BE-01 2.935 3E+00 3.1463 E-01 3.70 75 E-01 1.85 75 E-01	P T RHO H A S G G G G S P E C I S E A	MOVING SHUCK 4.80885=02 4.2913=01 9.1521E=00 1.0745E+02 6.0437E=00 1.2994E=01 1.294E+00 6.9518E=01 1.6015E+01 1.8328E-01 6.3343E-01	STANDING SHOCK 3.0129E+03 5.4353E+01 4.5943E+01 1.8955E+02 7.4662E+00 1.3618E+00 1.4468E+00 3.1946E+00 - MOLE FRACTIONS 3.0883E-01 3.8235E-01 3.0880E-01 1.5315E-05	REFLECTED SHOCK 5.1369E+03 5.8095E+01 5.7262E+01 2.2545E+02 8.3079E+00 1.4049E+00 1.5442E+00 7.1482E-01 3.0438E+00 3.5240E-01 2.9524E-01 3.5231E-01 4.5822E-05
P T RHO H A S C GAME U SPECIE:	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+00 1.2725E+00 1.1877E+00 6.9519E-01 1.4759E+01	STANDING SHOCK 2-84992+03 5-1693E+01 3-9940E+01 1-6294E+02 7-0693E+00 1-3702E+00 7-0556E-01 3-1230E+00	REFLECTED SHUCK 4.0872+03 5.5131E+01 5.0810E+01 1.9458E+02 7.5567E+00 1.3639E+00 1.4591E+00 7.0938E-01 2.9353E+00 3.1463E-01 3.7075E-01 1.8575E-05 3.3798E-14	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHUCK 4.80885 + 02 4.2913	STANDING SHOCK 3.01296+03 5.43516+01 4.59436+01 1.89558+02 7.46628+00 1.46688+00 1.46688+00 3.19466+00 - MOLE FRACTIONS 3.08838-01 3.08808-01 1.53158-05 2.04048-14	REFLECTED SHOCK 5.1369E+03 5.8095E+01 5.7262E+01 2.2545E+02 8.3079E+00 1.4049E+00 7.1482E-01 3.0438E+00
P T RHO H A S C GAME U SPECIE:	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+00 1.2725E+00 1.1807E+00 6.9519E-31 1.4759E+01 5 	STANDING SHOCK 2.4292+03 5.1693E+01 3.9940E+01 1.6244E+02 7.0693E+00 1.3702E+00 7.0556E-01 3.1230E+00	REFLECTED SHUCK 4.087 2E+03 5.5131E+01 5.0810E+01 1.9458E+02 7.556 7E+00 1.3639E+00 1.4591E+00 7.0948E-01 2.9354E+00 3.1463E-01 3.7075E-01 3.146CE-01 1.8575E-05 3.3798E-14 2.9219E-28	P T RHO H A S GAME U SPECIES E- A A+ A++ A+++	MOVING SHUCK 4.80885 + 02 4.29135 + 01 9.15215 + 00 1.07455 + 02 6.04375 + 00 1.29945 + 00 1.22445 + 00 6.95185 + 01 1.60155 + 01 1.83285 - 01 1.83285 - 01 1.83285 - 01 3.19855 - 07	STANDING SHOCK 3.0129E+03 5.4353E+01 4.5943E+01 1.8955E+02 7.4662E+00 1.3618E+00 1.4468E+00 3.1946E+00 - MOLE FRACTIONS 3.0883E-01 3.8235E-01 3.0880E-01 1.5315E-05	REFLECTED SHOCK 5.1369E+03 5.8095E+01 5.7262E+01 2.2545E+02 8.3079E+00 1.4049E+00 1.5442E+00 7.1482E-01 3.0438E+00 3.5240E-01 2.9524E-01 3.5231E-01 4.5822E-05
P T RHO H A S Z GANE U SPECIE:	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+00 1.2725E+00 1.1877E+00 6.9519E-01 1.4759E+01	STANDING SHOCK 2-84992+03 5-1693E+01 3-9940E+01 1-6294E+02 7-0693E+00 1-3702E+00 7-0556E-01 3-1230E+00	REFLECTED SHUCK 4.0872+03 5.5131E+01 5.0810E+01 1.9458E+02 7.5567E+00 1.3639E+00 1.4591E+00 7.0938E-01 2.9353E+00 3.1463E-01 3.7075E-01 1.8575E-05 3.3798E-14	P T RHO H A S S Z GAME U SPECIES E- A A+ A+++ A++++	MOVING SHUCK 4.80885 + 02 4.2913	STANDING SHUCK 3.01296+03 5.43536+01 4.59436+01 1.89558+02 7.46626+00 1.46686+00 7.08856-01 3.19466+00 - MOLE FRACTIONS 3.08836-01 3.82356-01 3.08806-01 1.53156-05 2.04046-14 1.07186-28	REFLECTED SHOCK 5.1369f+03 5.8095F+01 5.7262F+01 2.2545F+02 8.3079F+30 1.4049F+00 1.5442F+00 7.1482F-01 3.0438F+00 3.5240F-01 2.9524F-01 3.5231F-01 4.5822F-05 2.9830F-13 1.7360F-26
P T RHO H A S C GAME U SPECIE:	MOVING SMOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+03 1.2725E+00 6.9519E-01 1.4759E+01 S 1.5306E-01 6.9389E-01 1.5306E-01 1.3691E-07 1.6696E-19 1.4712E-36 3.2253E-64	STANDING SHOCK 2.8290E+03 5.1693E+01 3.9940E+01 1.6244E+02 7.0693E+00 1.3702E+00 7.0556E-01 3.1230E+00 4.5962E-01 2.7019E-01 6.2033E-06 2.3370E-15 1.6223E-30 5.9487E-51	REFLECTED SHUCK 4.087 2E + 03 5.5131E + 01 5.0810E + 01 1.9458E + 02 7.556 7E + 90 1.4591E + 00 7.0948E - 01 2.9358E + 00 3.1463E - 01 3.7075E - 01 3.1465E - 01 1.8575E - 05 3.3798E - 14 2.9219E - 28 2.1602E - 47	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A++	MOVING SHUCK 4.80885+02 4.29135+01 9.15211+00 1.07456+02 6.04376+00 1.29946+00 1.22446+00 6.95186-01 1.60156+01 1.8328E-01 6.33436-01 1.8328E-01 6.33436-01 1.8328E-01 1.9856-07 1.17796-18 5.71865-27 1.15406-61	STANDING SHOCK 3.0129E+03 5.4351E+01 4.5943E+01 1.8955E+02 7.4662E+30 1.3618E+00 1.4468E+00 7.0885E-01 3.1946E+00 - MOLE FRACTIONS 3.0883E-01 3.0880E-01 1.5315E-05 2.0404E-14 1.0718E-28 3.9958E-48	REFLECTED SHOCK 5.1369E+03 5.8095E+01 5.7262E+01 2.2545E+02 8.3079E+30 1.4049E+00 7.1482E-01 3.0438E+00
P T RHO H A S Z GANE U SPECIE:	MOVING SHOCK 4.1274E+02 4.1409E+01 8.4417E+03 9.3085E+01 5.3300E+00 1.2725E+00 1.1807E+00 6.9519E-01 1.4759E+01 S 1.5306E-01 1.5306E-01 1.3691E-07 1.6696E-19 1.4712E-36 3.2563E-64 0	STANDING SHOCK 2.84992+03 5.16925+01 3.9940E+01 1.6245E+02 7.0693E+00 1.3243E+00 1.3702E+00 7.0556E-01 3.1230E+00	REFLECTED SHUCK 4.087 24 + 03 5.51 31E + 01 5.0810E + 01 1.9458E + 02 7.556 7E + 90 1.363 9E + 00 1.4591E + 00 7.0938E - 01 2.935 3E + 00 3.1463E - 01 3.70 75E - 01 3.146CE - 01 1.8575E - 05 3.3798E - 14 2.9219E - 28 2.1602E - 47 5.6985E - 72	P T RHO H A S GAME U SPECIES E- A A+++++++++++++++++++++++++++++++++	MOVING SHUCK 4.80885 + 02 4.2913 = 01 9.1521 E + 00 1.0745 E + 02 6.0437 E + 03 1.2244 F + 03 6.9518 E - 01 1.6015 E + 01 1.8328 E - 01 3.343 E - 01 3.1985 E - 07 1.1779 E - 18 5.7188 E - 27 1.1590 E - 61 3.	STANDING SHUCK 3.01296+03 5.43516+01 4.59436+01 1.89558+02 7.46626+00 1.46686+00 1.46686+01 3.19466+00 - MOLE FRACTIUNS 3.08636-01 3.82356-01 3.08606-01 1.53156-05 2.04046-14 1.07186-28 3.99586-48 3.99586-48	REFLECTED SHOCK 5.1369E+03 5.9095E+01 5.7262E+01 2.2545E+02 8.3079E+30 1.4049E+00 7.1482E-01 3.0438E+00 3.5240E-01 2.9524E-01 3.5231E-01 4.5822E-05 2.9830E-13 1.7360E-26 1.4927E-44 8.0483E-68

Pl =	2.00E+02 N/SU-M.	US1= 6.00E+03	M/SEC	P1 = 2.	-00E+02 N/SQ-M	, US1= 6.43E+0	3 M/SEC
	MOVING SHOCK	STANDING SHUCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	5.1706E+02	4.05C7E+03	5.7229E+03	p ·	5.9213E+02	4.9817E+03	6.9766E+03
Ť	4.3644E+01	5.5727E+01	5.9691E+01	•	4.5071E+01	5.8550E+01	6.3160E+01
RHO	9.4965E+00	4.8883E+01	6.0348E+01	RHO			
H					1.01376+01	5.4228E+01	6.5770E+01
	1.1503E+02	2.0393E+02	2.4191E+02	H	1.3090E+02	2.3372E+32	2.7627E+02
A	6.1533E+30	7.6753E+00	8.2521E+00	A	6.3773E+00	8.1107E+00	8.7818E+00
S	1.3134E+00	1.3814E+00	1.4262E+00	S	1.3424E+00	1.4211E+00	1.4695E+00
Ζ .	1.2475E+00	1.4870E+00	1.58875+00	Z	1.2960E+00	1.5690E+00	1.6795E+00
GAME	6.9542E-01	7.1092E-01	7.1809E-C1	GAME	6.9628E-01	7.1609E-01	7.2703E-01
U	1.6649E+01	3.2389E+00	3.1071E+00	U	1.7879E+01	3.3470E+00	3.2570E+00
SPECI	ES	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
_							
Ę-	1.9841E-01	3.2749E-01	3.7056E-01	Ę-	2.2839E-01	3.6266E-01	4.0457E-01
Α .	6.0318E-01	3.4504E-01	2.5896E-01	A	5.4322E-01	2.7474E-01	1.9104E-01
A +	1.98416-01	3.27456-01	3.7041E-01	A+	2.2839E-01	3.6255E-01	4.0420E-01
A++	4.72868-07	2.3746E-05	7.2382E-05	A++	9.7816E-07	5.56615-05	1.8503E-04
A+++ ·	2.9089E-18	5.8791E-14	9.0160E-13	A+++	1.5686E-17	4.5829E-13	8.7689E-12
A++++	3.1061E-36	7.9319E-28	1.3740E-25	A++++	7.16758-35	3.6708E-26	9.4977E-24
ΑV	1.7477E-60	1.0379E-46	4.0773E-43	AV	2.5630E-58	4.5758E-44	3.4839E-40
AVI	3.	5.5848E-71	1.0161E-65	AVI	2.6822E-88	3.5027E-67	
AVII	0.	0.	0.	IIVA	2.	0.	2.1483E-90
AVIII	J.	0.	9.	IIIVA	ō.	ō.	0.
		••	••	~****	••	••	••
P1 =	2.00E+02 N/SQ-M	US1= 6.20E+03	M/SEC	P1 = 2	.00E+02 N/SQ-M	. US1= 6.60E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MONTH'S SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	5.53998+02	4.5038E+03	6.3317E+03	ρ			
Ť.	4.4362E+01	5.7114E+01	6.1359E+01	ř	6.3149E+02	5.4834E+03	7.6575E+03
RHO	9.8225E+00	5.16225+01	6.3165E+01		4.5775E+01	6.0052E+01	6.5166E+01
				RHO	1.0440E+01	5.6673E+01	6.8062E+01
Η.	1.2284E+02	2.1859E+02	2.5877E+02	H	1.3922E+02	2.4432E+02	2.9444E+02
Α.	6.2644E+00	7.8887E+00	8.5076E+00	A	6.4924E+00	8.3433E+00	9. C843E+00
S	1.3277E+00 .	1.4011E+00	1.4477E+00	S	1.3574E+30	1.4414E+30	1.4920E+00
Z	1.2714E+00	1.5276E+00	1.6337E+00	ı	1.3214E+00	1.6112E+00	1.7265E+00
GAME	6.95792-01	7.1329E-01	7.2205E-01	GAME	6.9687E-01	7.1945E-01	7.3350E-01
U	1.7265E+01	3.2898E+00	3.1777E+00	U	1.8491E+01	3.4114E+00	3. 345 5E +00
SPECI		. MOLE FRACTIONS		SPEC LES		- MOLE FRACTIONS	
3. 201				Jr CC IC 3	,	- MOCE TRACTIONS	
E -		•			•	•	
	2-13446-01	3.4536E-01	3.8788E-01	, E-	2.4322E-01	3.7934E-01	4.2079E-01
A	5.73115-01	3.0931E-01	2.2435E-01	, E- A		2.4140E-01	4.2079E-01 1.5873E-01
Α Α*		3.0931E-01 3.4529E-01			2.4322E-01		
	5.73115-01	3.0931E-01	2.2435E-01	Á	2.4322E-01 5.1357E-01 2.4322E-01	2.4140E-01	1.5873E-01 4.2017E-01
Δ+	5.73119-01 2.1344E-01	3.0931E-01 3.4529E-01	2.2435E-01 3.8765E-01	^ A A+	2.4322E-01 5.1357E-01 2.4322E-01 1.3776E-06	2.4140E-01 3.7917E-01 8.5522E-05	1.5873E-01 4.2017E-01 3.0873E-04
A++ A++	5.7311E-01 2.1344E-01 6.8541E-07 6.8726E-18	3.0931E-01 3.4529E-01 3.6372E-05 1.6409E-13	2.2435E-01 3.8765E-01 1.1472E-04 2.7522E-12	A A+ A++ A+++	2.4322E-01 5.1357E-01 2.4322E-01 1.3776E-06 3.4773E-17	2.4140E-01 3.7917E-01 8.5522E-05 1.2974E-12	1.5873E-01 4.2017E-01 3.0873E-04 3.0393E-11
A++ A++ A+++	5.73119-01 2.1344E-01 6.8541c-07 6.8726E-18 1.5455E-35	3.0951E-01 3.4529E-01 3.6372E-05 1.6409E-13 5.3909E-27	2.2435E-01 3.8765E-01 1.1472E-04 2.7522E-12 1.1043E-24	A A+ A++ A+++	2.4322E-01 5.1357E-01 2.4322E-01 1.3776E-06 3.4773E-17 3.1320E-34	2.4140E-01 3.7917E-01 8.5522E-05 1.2974E-12 2.5863E-25	1.5873E-01 4.2017E-01 3.0873E-04 3.0393E-11 9.5210E-23
A++ A+++ A++++	5.73115-01 2.1344E-01 6.8541E-07 6.8726E-18 1.5455E-35 2.2629E-59	3.0931E-01 3.4529E-01 3.6372E-05 1.6409E-13 5.3909E-27 2.1725E-45	2.2435E-01 3.8765E-01 1.1472E-04 2.7522E-12 1.1043E-24 1.1442E-41	A A+ A++ A+++ A+++	2.4322E-01 5.1357E-01 2.4322E-01 1.3776E-06 3.4773E-17 3.1320E-34 2.5647E-57	2.4140E-01 3.7917E-01 8.5522E-05 1.2974E-12 2.5863E-25 1.0749E-42	1.5873E-01 4.2017E-01 3.0873E-04 3.0393E-11 9.5210E-23 1.3635E-38
A++ A+++ A++++ AV AVI	5.73115-01 2.1344E-01 6.85416-07 6.8746E-18 1.5455E-35 2.2629E-59	3.0931E-01 3.4529E-01 3.6372E-05 1.6409E-13 5.3909E-27 2.1725E-45 4.4455E-69	2.2435E-01 3.8765E-01 1.1472E-04 2.7522E-12 1.1043E-24 1.1442E-41 1.3558E-63	A A+++ A+++ A++++ AV	2.4322E-01 5.1357E-01 2.4322E-01 1.3776E-06 3.4773E-17 3.1320E-34 2.5647E-57 6.4761E-87	2.4140E-01 3.7917E-01 8.5522E-05 1.2974E-12 2.5863E-25 1.0749E-42 4.0711E-65	1.5873E-01 4.2017E-01 3.0873E-04 3.0393E-11 9.5210E-23 1.3635E-38 4.0555E-59
A++ A+++ A++++	5.73115-01 2.1344E-01 6.8541E-07 6.8726E-18 1.5455E-35 2.2629E-59	3.0931E-01 3.4529E-01 3.6372E-05 1.6409E-13 5.3909E-27 2.1725E-45	2.2435E-01 3.8765E-01 1.1472E-04 2.7522E-12 1.1043E-24 1.1442E-41	A A+ A++ A+++ A+++	2.4322E-01 5.1357E-01 2.4322E-01 1.3776E-06 3.4773E-17 3.1320E-34 2.5647E-57	2.4140E-01 3.7917E-01 8.5522E-05 1.2974E-12 2.5863E-25 1.0749E-42	1.5873E-01 4.2017E-01 3.0873E-04 3.0393E-11 9.5210E-23 1.3635E-38

P1 = 2.00E+02 N/S0-M, US1= 6.80E+03 M/SEC	Pl = 2.00E+02 N/SQ-M, US1= 7.20E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANUING SHOCK REFLECTED SHOCK
P 6.7246E+02 6.0183E+03 8.3939E+03	P 7.575JE+02 7.1370E+03 9.9584E+03
T 4.6479E+01 6.1662E+01 6.7431E+01	T 4.7884E+01 6.5254E+01 7.3192E+01
RHD 1.0737E+01 5.8996E+01 7.0200E+01	RHO 1.1283E+01 6.2821E+01 7.2977E+01
H 1.47815+02 2.6554E+02 3.1370F+02	H 1.6572E+02 2.9914E+02 3.5402E+02
A 6.6099E+00 8.5915E+00 9.4185E+00	A 6.8518E+00 9:1386E+00 1.0220E+01
\$ 1.4621E+00 1.5144E+00	S 1.4044E+00 1.5038E+00 1.5597E+00
· · · · · · · · · · · · · · · · · · ·	2 1.4021E+00 1.7410E+00 1.8644E+00
	GAME 6.99286-01 7.3510E-01 7.6541E-01
	U 2.03385+01 3.65815+00 3.71885+00
U - 1.91146+01 3.4835E+00 3.4623E+00	200300000
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E- 2.5792F-01 3.9554E-01 4.3607E-01	E- 2.8677E-01 4.2563E-01 4.6364E-01
A 4.8416E-01 2.0905E-01 1.2840E-01	A +.2647E-31 1.4908E-01 7.4670E-02
A+ 2.5792E-01 3.9528E-01/ 4.3500E-01	A+ 2.8676E-01 4.2495E-01 4.5974E-01
A++ 1.9200E-06 1.3324E-04 5.3551E-04	A++ -3.6292E-06 1.3.3981E-04 1. 1.9499E-03
A+++ 7.5441E-17 3.799E-12 1.1605E-10	A+++ 3.3592E-16 3.6763E-11 2.7066E-09
A++++ 1.3129E-33 1.9165E-24 1.1321E-21	A++++ 2.1119E-32 1.2758E-22: 3.6890E-19
AV 2.3443E-56 2.6267E-41 6.8975E-37	AV 1.7736E-54 2.0069E-38 6.3634E-33
AVI 9.5646E-86 4.3470E-63 1.2108E-56	AVI 3.6900E-83 6.2092E-59 6.6035E-51
AVII 0. 0. 1.6369E-83	AVII 5.5565E=87 2.2810E-75
AVIII 0. 0.	AVIII 0. J. 0.
· ·	
P1 = 2.00E+02 N/Su-M. US1= 7.00E+03 M/SEC	P1 = 2.00E+02 N/SU-M, US1= 7.40E+03 M/SEC
	A MARIN HILL TO A SECTION OF A
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7-1438E+02 6-5682E+03 9-1516E+03	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 8.0181E+02 7.7222E+03 1.0835E+04
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 77.1438E+02 6.5682E+03 9.1516E+03 T 4.7140E+01 6.3398E+01 7.0034E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 77.1438E+02 6.5682E+03 9.1516E+03 T 4.7140E+01 6.3398E+01 7.0034E+01 RHO 1.1016E+01 6.1002E+01 7.1628E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 77.1438E+02 6.5682E+03 9.1516E+03 T 4.7140E+01 6.3398E+01 7.0034E+01 RHO 1.1016E+01 6.1002E+01 7.1828E+01 H 1.5664E+02 2.8212E+02 3.3327E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7-1438E+02 6.5682E+03 9.1516E+03 T 4.7140E+01 6.3398E+01 7.0034E+01 RHO 1.1016E+01 6.1002E+01 7.1828E+01 H 1.5664E+02 2.8212E+02 3.3327E+02 A 6.7296E+00 8.8581E+00 9.7924E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 8.0181E+02 7.7222E+03 1.0805E+04 T 4.8592E+01 6.7345E+01 7.6960E+01 RHO 1.1536E+01 6.4273E+01 7.3649E+01 H 1.7576E+02 3.1660E+02 3.7563E+02 A 6.9766E+00 9.4498E+00 1.0662E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P B.0181E+02 7.7222E+03 1.0835E+04 T 4.8592E+01 6.7345E+01 7.6960E+01 RHD 1.1536E+01 6.4273E+01 7.3649E+01 H 1.7576E+02 3.1660E+02 3.7563E+92 A 6.9766E+03 9.4498E+03 1.0662E+01 S 1.4206E+03 1.5247E+00 1.5825E+00 Z 1.4304E+03 1.7341E+00 1.9062E+01 U 2.0947E+01 3.7650E+00 3.8884E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P B.0181E+02 7.7222E+03 1.0805E+04 T 4.8592E+01 6.7345E+01 7.0960E+01 RHO 1.1536E+01 6.4273E+01 7.3649E+01 H 1.7596E+02 3.1660E+02 3.7563E+92 A 6.9766E+00 9.4498E+00 1.0662E+01 S 1.4206E+00 1.5247E+00 1.5825E+00 Z 1.4304E+00 1.7841E+00 1.9062E+00 GAME 7.0029E-01 7.4325E-01 7.7491E-01 U 2.0947E+01 3.7650E+00 3.8888E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P B.0181E+02 7.7222E+03 1.08036E+04 T 4.8592E+01 6.7345E+01 7.6960E+01 RHD 1.1536E+01 6.4273E+01 7.3649E+01 H 1.7576E+02 3.1660E+02 3.7563E+02 A 6.9766E+00 9.4498E+00 1.0662E+01 S 1.4206E+00 1.5227E+00 1.5825E+00 Z 1.4304E+00 1.7841E+00 1.9062E+00 GAME 7.0029E+01 7.4325E+01 7.7491E-01 U 2.0947E+01 3.7650E+00 3.8884E+00 SPECIES S
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P B.0181E+02 7.722ZE+03 1.0835E+04 T 4.859ZE+01 6.7345E+01 7.6960E+01 RHD 1.1536E+01 6.4273E+01 7.3649E+01 H 1.7576E+02 3.1660E+02 3.7563E+92 A 6.9766E+00 9.4498E+00 1.0662ZE+01 S 1.420E+00 1.5247E+00 1.5825E+00 Z 1.4304E+00 1.7841E+00 1.9062ZE+01 U 2.0947E+01 3.7650E+00 3.8884E+00 SPECIES SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P B.0181E+02 7.7222E+03 1.08036E+04 T 4.8592E+01 6.7345E+01 7.6960E+01 RHD 1.1536E+01 6.4273E+01 7.3649E+01 H 1.7576E+02 3.166CE+02 3.7563E+72 A 6.9766E+00 9.4498E+00 1.0662E+01 S 1.4206E+00 1.5247E+00 1.5925E+00 L 1.4304E+00 1.7841E+00 1.9622E+00 L 1.4304E+00 1.7341E+00 1.9622E+00 L 1.4304E+01 1.7650E+00 3.8884E+00 SPECIES SPEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P B.0181E+02 7.7222E+03 1.08036E+04 T 4.8592E+01 6.7345E+01 7.6960E+01 RHD 1.1536E+01 6.4273E+01 7.3649E+01 A.6960E+02 3.7363E+02 A.69766E+09 9.4498E+00 1.0662E+01 S 1.4206E+00 1.5247E+00 1.5825E+00 Z 1.4304E+00 1.7841E+00 1.9062E+00 GAME 7.0029E+01 7.4325E+01 7.7491E-01 U 2.0947E+01 3.7650E+00 3.8884E+00 SPECIES SPECIES MOLE FRACTIONS H.7541E-01 A.3948E-01 4.7541E-01 A.39424E-01 1.2161E-01 5.3355E-02 A+ 3.6067E-01 4.3834E-10 4.6707E-01 A+ 4.9409E-06 5.6844E-04 4.1667E-03 A+++ 4.9409E-06 5.6844E-04 4.1667E-03 A++++ 4.3678E-32 1.2964E-21 1.1128E-17
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P B.0181E+02 7.722ZE+03 1.0835E+04 T 4.859ZE+01 6.7345E+01 7.6960E+01 RHD 1.1536E+01 6.4273E+01 7.3649F+01 H 1.7570E+02 3.1660E+02 3.7563E+92 A 6.9766E+00 9.4498E+00 1.066ZE+01 S 1.4206F+00 1.5247E+00 1.5825E+00 Z 1.4304E+00 1.7341E+00 1.906ZE+00 GAME 7.0029E-01 7.4325E-01 7.7491E-01 U 2.0947E+01 3.7650E+00 3.8884E+00 SPECIES 4.3948E-01 4.7541E-01 A 3.9824E-01 4.3948E-01 4.6707E-01 A+ 4.9439E-06 5.8846E-04 4.6670F-01 A+ 4.9439E-06 5.8846E-04 4.1667E-03 A++ 4.9439E-06 5.8846E-04 4.1667E-03 A++ 4.9439E-06 1.2964E-21 1.1128E-17 AV 1.7382E-53 8.1348E-37 1.3600E-30 3.800E-30 3.800E-
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P B.0181E+02 7.7222E+03 1.08036E+04 T 4.8592E+01 6.7345E+01 7.6960E+01 RHD 1.1536E+01 6.4273E+01 7.3649E+01 H 1.7576E+02 3.1660E+02 3.7563E+92 A 6.9766E+00 9.4498E+00 1.0662E+01 S 1.4206E+00 1.5227E+00 1.5825E+00 Z 1.4304E+00 1.7841E+00 1.9062E+00 GAME 7.0029E+01 7.4325E+01 7.7491E+01 U 2.0947E+01 3.7650E+00 3.8884E+00 SPECIES SPECIES SPECIES SPECIES SPECIES SPECIES SPECIES SPECIES SPECIES 4.3948E+01 4.7541E+01 A 3.9824E+01 1.2161E+01 5.3355E+02 A 3.9824E+01 4.8948E+01 4.6707E+01 A + 4.9409E+06 5.6844E+04 4.1667E+03 A + 4.96061E+16 1.2856E+10 1.7391E+08 A + 4.96061E+16 1.2856E+10 1.7391E+08 A + 4.96061E+16 1.2966E+10 1.7391E+08 1.739
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P B.0181E+02 7.722ZE+03 1.0835E+04 T 4.8592E+01 6.7345E+01 7.6960E+01 RHD 1.1536E+01 6.4273E+01 7.3649E+01 H 1.7570E+02 3.1660E+02 3.7563E+92 A 6.9766E+00 9.4498E+00 1.0662E+01 S 1.420E+00 1.5247E+00 1.5825E+00 Z 1.4304E+00 1.7641E+00 1.9062E+00 GAME 7.0029E+01 7.4325E+01 7.7491E+01 U 2.0947E+01 3.7650E+00 3.8884E+00 SPECIES MULE FRACTIONS FRAC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P B.0181E+02 7.7222E+03 1.08036E+04 T 4.8592E+01 6.7345E+01 7.6960E+01 RHD 1.1536E+01 6.4273E+01 7.3649E+01 H 1.7576E+02 3.1660E+02 3.7563E+92 A 6.9766E+00 9.4498E+00 1.0662E+01 S 1.4206E+00 1.5227E+00 1.5825E+00 Z 1.4304E+00 1.7841E+00 1.9062E+00 GAME 7.0029E+01 7.4325E+01 7.7491E+01 U 2.0947E+01 3.7650E+00 3.8884E+00 SPECIES SPECIES SPECIES SPECIES SPECIES SPECIES SPECIES SPECIES SPECIES 4.3948E+01 4.7541E+01 A 3.9824E+01 1.2161E+01 5.3355E+02 A 3.9824E+01 4.8948E+01 4.6707E+01 A + 4.9409E+06 5.6844E+04 4.1667E+03 A + 4.96061E+16 1.2856E+10 1.7391E+08 A + 4.96061E+16 1.2856E+10 1.7391E+08 A + 4.96061E+16 1.2966E+10 1.7391E+08 1.739

P1 =	2.00E+02 N/SQ-M	. US1= 7.60E+0	3 M/SEC	P1 = 2.	00E+02 N/5Q-M	. US1= 8.00E+0	3 M/SEC
٠.				•			
_		STANDING SHOCK	REFLECTED SHOCK	_ *	MUVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ.	8.4730E+02	8.3165E+03	1.1680E+04	<u>P</u>	9.4182E+02	9.5403E+03	1.3500E+04
T	4.9316E+01	6.9725E+01	8.1133E+01	Ţ	5.0774E+01	7.5694E+31	8.8639E+01
RHQ .	1.17696+01 '		7.4072E+01	RHO -	1.2209E+01	6.6229E+01	7.5795E+01
н	1.8465E+02	3.3448E+02	3.9796E+02	H.	2.0459E+02	3.7144E+02	4.4330E+02
A	7.1063E+00	9.7944E+00	1.1027E+01	A	7.3700E+00	1.0563E+01	1.15016+01
•	1.4375E+00	1.5456E+00	1.6049E+00	<u>s</u> .	1.4709E+00	1.5865E+00	1.647 0E +00
2	1.4598E+00	1.8261E+00	1.9435E+00	2	1.5193E+00	1.9031E+00	2.0094E+00
GAME	7.01455-01	7.5344E-01	7.7115E-01	GAME	7.0413E-01	7.7451E-01	7.4270E-01
U	2.1555E+01	3.8889E+00	4.0666E+00	U	2.2764E+31	4.2017E+00	4.3469E+00
			• *				
SPECI	ES	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E- '	3.1500E-01	4.5238E-J1	4.8547E-01	E-	3.4179E-01	4.7453E-01	5.0235E-01
A	3.7001E-01	9.6241E-02	3.7943E-02	A	3.1644E-01	5.4524E-02	2.2713E-02
A+ .	3.14985-01	4.50395-01	4.6769E-01	A+	3.4176E-01	4.6736E-01	4.4754E-01
A++ .	6.7265E-06	4.9499E-04	8.89.02E-03	A++	1.2208E-05	3.5859E-03	2.7402E-02
A+++	1.44835-15	5.0124E-10	1.1310E-07	A+++	5.9696E-15	1.1456E-08	1.9730E-06
A++++	3.3624E-31	: 1.5/64E-20	3.4259E-16	A++++	4.7671E-30	4.8493E-18	6.7066E-14
AV	1.8532E->2	4.1589E-35	2.9736E-28	AV	1.3063E-50	3.4166E-31	1-2397E-24
AVI -	9.3368E-80	4.3018E-54	3.64748-44	. IVA	4.8923E-77	1.9243E-48	6.3097E-39
AVII	0.	6.3292E-80	8.1202E-66	I IVA	0.	6.3239E-72	2.1762E-58
IIIVA).	0.	0.	1 I I I VA	0.	0.	3.7950E-82
				Jj.			
					*		
			7.				
				/ \			
P1 =	2.00E+02 N/SU-M	. US1= 7.80E+0	3 M/SEC	P1 = 2.	.00E+02 N/SQ-M	, US1= 8.20E+0	3 M/SEC
P1 =	2.00E+02 N/SU-M	. US1= 7.80E+0	3 M/SEC	.P1 = 2.	.00E+02 N/SQ-M	, US1= 8.20E+0	3 M/SEC
P1 =				. P1 = 2.			
P1 =	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	× ×	MUVING SHOCK .	STANDING SHOCK	REFLECTED SHOCK
: . P ; .	MOVING SHOCK 8.9348E+02	STANDING SHOCK 8.9273E+03	REFLECTED SHOCK 1.2592E+04	•	MOVING SHOCK - 9.9082E+02	STANDING SHOCK 1.0161E+04	REFLECTED SHOCK 1.4445E+04
P :	MOVING SHOCK 8.9348E+02 5.0034E+01	STANDING SHOCK 8.9273E+03 7.2491E+01	REFLECTED SHOCK 1.2592F+04 8.5168F+01	•	MOVING SHOCK - 9.9082E+02 5.1533E+01	STANDING SHOCK 1.0161E+04 7.9238E+01	REFLECTED SHOCK 1.4445E+04 9.1749E+01
P T RHO	MDVING SHOCK 8.9348E+02 5.0034E+01 1.2000E+01	STANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01	REFLECTED SHOCK 1.2592E+04 8.5168E+01 7.4771E+01	P T RHQ	MOVING SHOCK - 9.9082E+02 5.1533E+01 1.2403E+01	STANDING SHOCK 1.0161E+04 7.9238E+01 6.6226E+01	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01
P :	MOVING SHOCK 8,9398E+02 5,0034E+01 1,2000E+01 1,9450E+02	STANDING SHOCK 8.9273E+03 7.2491E+01	REFLECTED SHOCK 1.2592F+04 8.5168F+01 7.4771E+01 4.2076E+02	•	MOVING SHOCK . 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02	STANDING SHOCK 1.0161E+04 7.9238E+01 6.6226E+01 3.9053E+02	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02
P T RHO H	MOVING SHOCK 8,9348E+02 5.0034E+01 1.200E+01 1.9450E+02 7.2354E+00	STANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01	REFLECTED SHOCK 1.2592E+04 8.5164E+01 7.4771E+01 4.2076E+02 1.1286E+01	P T RHO H	MUVING SHOCK - 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.5084E+00	STANDING SHOCK 1.0161E+04 7.9238E+01 6.6226E+01 3.9053E+02 1.0901E+01	REFLECTEU SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01
P T RHO H A S	MOVING SHOCK 8.9348E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.4539E+00	STANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+00	REFLECTED SHOCK 1.25928-04 8.51688-01 7.47718-01 4.20768-02 1.12868-01 1.62668-00	P T RHO H	MUVING SHOCK 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.5084E+00 1.4881E+00	STANDING SHOCK 1.0161E+04 7.9238E+01 6.6226E+01 3.9053E+02 1.0901E+01 1.6065E+00	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00
P T RHO H A S.	MOVING SHOCK 8.93 48E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.4534E+C0 1.4590E+00	STANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+00 1.8661E+00	REFLECTED SHOCK 1.2592F.04 8.5168F.01 7.4771E.01 4.2076F.02 1.1286F.00 1.6266F.00 1.9774F.00	P T RHO H A S Z	MUVING SHOCK. 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.5084E+00 1.4881E+00 1.5501E+00	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.6065E+00 1.9362E+00	REFLECTEU SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00
P T RHO H A S	MOVING SHOCK 8.93 98E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.45 34E+00 1.4890E+00 7.0276E+01	STANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+00	REFLECTED SHOCK 1.25928-04 8.51688-01 7.47718-01 4.20768-02 1.12868-01 1.62668-00	P T RHO H	MUVING SHOCK. 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.5084E+00 1.5501E+00 7.0574E-01	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.9901E+01 1.5065E+00 1.9362E+00 7.7450E-01	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01
P T RHO H A S.	MOVING SHOCK 8.93 48E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.4534E+C0 1.4590E+00	\$1ANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+30 1.8661E+30 7.6506E-01	REFLECTED SHOCK 1.2592E+04 8.5164E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E+01	P T RHD A S S Z GAME	MUVING SHOCK. 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.5084E+00 1.4881E+00 1.5501E+00	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.6065E+00 1.9362E+00	REFLECTEU SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00
P T RHO H A S. Z GAME U	MOVING SHUCK 8.93 48E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.45 39E+C0 1.48 90E+00 7.02 70E-01 2.2160E+01	STANDING SHOCK 8.92736+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+00 1.8661E+00 7.6506E-01 4.0346E+00	REFLECTED SHOCK 1.2592E+04 8.5168E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352E+00	P T RHD H S S Z GAME U	MUVING SHOCK. 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.5084E+00 1.5501E+00 7.0574E-01	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.6065E+00 1.9362E+00 7.7450E-01 4.3815E+00	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00
P T RHO H A S.	MOVING SHUCK 8.93 48E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.45 39E+C0 1.48 90E+00 7.02 70E-01 2.2160E+01	\$1ANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+30 1.8661E+30 7.6506E-01	REFLECTED SHOCK 1.2592E+04 8.5168E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352E+00	P T RHD A S S Z GAME	MUVING SHOCK 9-9082E+02 5-1533E+01 1-2403E+01 2-1495E+02 7-504E+00 1-488IE+00 1-550IE+00 7-0574E+01 2-3366E+01	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.6065E+00 1.936ZE+00 7.7450E-01 4.3815E+00	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00
P T HO H A S. Z GAME U SPECI	MOVING SHOCK 8.93 48E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.4539E+00 7.0276E+01 2.2160E+01	\$TANDING SHOCK 8.92736+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+00 1.8661E+30 7.6506E-01 4.0346E+00	REFLECTED SHOCK 1.2592E+04 8.5168E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352F+00	P T RHO / H S S S S S S S S S S S S S S S S S S	MUVING SHOCK 9-9082E+02 5-1533E+01 1-2403E+01 2-1495E+02 7-5084E+00 1-888E+00 1-9550E+00 7-0574E+01 2-3366E+01	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.6065E+00 1.9362E+00 7.7450E-01 4.3815E+00 - MOLE FRACTIONS 4.8353E-01	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00
P T RHO H A S. Z GAME U SPEC I E-A	MOVING SMOCK 8.93 y8E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.4539E+00 7.027CE-01 2.2160E+01 ES	STANDING SHOCK 8-9273E+03 7-2491E+01 6-5993E+01 3-5276E+02 1-0173E+01 1-5662E+00 1.8661E+00 7-0506E-01 4-0346E+00 	REFLECTED SHOCK 1.2592E+04 8.5168E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352F+00	P T RHO H A S L GAME U SPECIES	MUVING SHOCK 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.504E+00 1.488IE+00 1.5501E+00 7.0574E-01 2.3366E+01 3.5490E-01 2.9022E-01	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.065E+00 7.7450E-01 4.3815E+00	REFLECTEU SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00
P T RHO H A S. Z GAME U SPEC I	MOVING SHOCK 8.93 48 £ + 02 5.003 £ E + 01 1.2000 £ + 01 1.945 0 £ + 02 7.23 5 £ £ + 00 1.45 3 4 £ + 00 1.48 90 £ + 00 7.02 7 6 £ - 01 2.216 0 £ + 01 3.28 4 1 £ - 01 3.43 1 9 £ - 01 3.23 3 € - 01	\$TANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+00 1.8661E+00 7.6506E-01 4.0346E+00	REFLECTED SHOCK 1.2592E+04 8.5164E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352E+00 4.9429E-01 2.8349E-02 4.6044E-01	P T RHD A S S S S S S S S S S S S S S S S S S	MUVING SHOCK 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 1.588E+00 1.488IE+00 1.550IE+00 7.0574E-01 2.3366E+01 	STANDING SHOCK 1.0161E+04 7.9238E+01 3.9053E+02 1.0901E+01 1.5065E+00 1.9362E+00 7.7450E-01 4.3815E+00 - MOLE FRACTIONS 4.8353E-01 3.9992E-02 4.6942E-01	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00
P T RHO H A S. Z GAME U SPEC I	MOVING SHOCK 8.93 48E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.4539E+00 7.0276E+01 2.2160E+01 ES	\$TANDING SHOCK 8.92736+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+00 1.8661E+00 7.6506E-01 4.0346E+00 - MULE FRACTIONS 4.6412E-01 7.3592E-02 4.6044E-01 1.8415E-03	REFLECTED SHOCK 1.2592E+04 8.5168E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352F+00 4.9429E-01 2.8349E-02 4.6044E-01 1.6924E-02	P T RHO H A A A A A A A A A A A A A A A A A A	MUVING SHOCK 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.504E+00 1.488IE+00 1.550IE+00 7.0574E+01 2.3366E+01 3.5490E-01 2.9022E-01 3.5486E-01 1.6473E-05	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.6065E+00 1.9362E+00 7.7450E-01 4.3815E+00 - MOLE FRACTIONS 4.8353E-01 3.9992E-02 4.6942E-01 7.0557E-03	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00 5.1047E-01 1.8985E-02 4.3064E-01 3.9906E-02
P T RHO H A S. Z GAME U SPEC I	MOVING SHOCK 8,93 98 ± 02 5,003 ± 6 ± 01 1,2000 € ± 01 1,945 0 € 0 1,45 39 € ± 00 1,45 39 € ± 00 1,45 99 € ± 00 2,216 0 € ± 01 2,216 0 € ± 01 3,23 4 3 1 9 € − 01 3,23 9 € − 01 9,048 7 € − 06 2,93 0 3 € − 15	STANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.8662E+00 1.8661E+00 7.6506E-01 4.0346E+00 - MULE FRACTIONS 4.6412E-01 1.8415E-03 2.2482E-09	REFLECTED SHOCK 1.2592E+04 8.5164E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352F+00 4.9429E-01 2.8349E-02 4.6944E-01 1.6924E-02 5.7035E-07	P T RHD A A A A A A A A A A A A A A A A A A A	MUVING SHOCK 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.5084E+00 1.4881E+00 1.5501E+00 7.0574E-01 2.3366E+01 3.5496E-01 2.9022E-01 3.5486E-01 1.6473E-05 1.2180E-14	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.065E+00 1.9362E+00 7.7450E-01 4.3815E+00 - MOLE FRACTIONS 4.8353E-01 3.9992E-02 4.6942E-01 7.0557E-03 6.0584E-08	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.668E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00
P T RHO H A S. Z GAME U SPEC I	MOVING SHUCK 8.93 48E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.4534E+00 1.4534E+00 1.4534E+01 2.2160E+01 ES 3.2841E-01 3.4319E-01 9.0487E-06 2.9303E-15 1.2620E-30	\$TANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+00 1.8661E+00 4.0346E+00 - MULE FRACTIONS 4.6412E-01 7.3592E-02 4.6044E-01 1.8415E-03 2.2482E-09 2.4762E-19	REFLECTED SHOCK 1.2592E+04 8.5164E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352E+00 4.9429E-01 2.8349E-02 4.6044E-01 1.6924E-02 5.7035E-07 6.7214E-15	P T RHO H A A A A A A A A A A A A A A A A A A	MUVING SHOCK 9-9082E+02 5-1533E+01 1-2403E+01 2-1495E+02 7-5084E+00 1-888E+00 1-5501E+00 7-0574E-01 2-3366E+01 	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.9901E+01 1.6065E+00 1.9362E+00 7.7450E-01 4.3815E+00 - MOLE FRACTIONS 4.8353E-01 3.9992E-02 4.6942E-01 7.0557E-03 6.0584E-08 1.0194E-16	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00
P T RHO H A S. Z GAME U SPEC I	MOVING SHOCK 8.93 y8E + 02 5.0034 E + 01 1.2000 E + 01 1.9450 E + 02 7.2354 E + 00 1.453 y E + 00 7.02 7 C E - 01 2.216 U E + 01 3.284 1 E - J1 3.431 y E - 01 3.243 y E - 01 9.048 7 E - 06 2.930 3 E - 15 1.262 0 E - 30 1.557 x E - 51	STANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.8662E+00 1.8661E+00 7.6506E-01 4.0346E+00 - MULE FRACTIONS 4.6412E-01 1.8415E-03 2.2482E-09	REFLECTED SHOCK 1.2592E+04 8.5164E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352F+00 4.9429E-01 2.8349E-02 4.6944E-01 1.6924E-02 5.7035E-07	P T RHD A A A A A A A A A A A A A A A A A A A	MUVING SHOCK 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.5084E+00 1.4881E+00 1.5501E+00 7.0574E-01 2.3366E+01 3.5496E-01 2.9022E-01 3.5486E-01 1.6473E-05 1.2180E-14	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.065E+00 1.9362E+00 7.7450E-01 4.3815E+00 - MOLE FRACTIONS 4.8353E-01 3.9992E-02 4.6942E-01 7.0557E-03 6.0584E-08	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00 5.1047E-01 1.3985E-02 4.3064E-01 3.9906E-02 5.3560E-06 4.3577E-13 2.4456E-23
P T RHO H A S. Z GAME U SPEC I E-A+A+++A+++	MOVING SHUCK 8.93 48E+02 5.0034E+01 1.2000E+01 1.9450E+02 7.2354E+00 1.4534E+00 1.4534E+00 1.4534E+01 2.2160E+01 ES 3.2841E-01 3.4319E-01 9.0487E-06 2.9303E-15 1.2620E-30	\$TANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+30 1.8661E+30 7.6506E-01 4.0346E+03 - MULE FRACTIONS 4.6412E-01 7.3592E-92 4.6044E-01 1.8415E-03 2.2482E-09 2.4762E-19 3.2121E-33 2.3469E-51	REFLECTED SHOCK 1.2592E+04 8.5164E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352E+00 4.9429E-01 2.8349E-02 4.6044E-01 1.6924E-02 5.7035E-07 6.7214E-15	P T RHD H H S S S S S S S S S S S S S S S S S	MUVING SHOCK 9-9082E+02 5-1533E+01 1-2403E+01 2-1495E+02 7-5084E+00 1-888E+00 1-5501E+00 7-0574E-01 2-3366E+01 	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.9901E+01 1.6065E+00 1.9362E+00 7.7450E-01 4.3815E+00 - MOLE FRACTIONS 4.8353E-01 3.9992E-02 4.6942E-01 7.0557E-03 6.0584E-08 1.0194E-16	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00 5.1047E-01 1.8985E-02 4.3064E-01 3.9906E-02 5.3560E-06 4.3577E-13 2.4456E-23 4.8552E-37
P T RHO H A S. Z GAME U SPECI E-A+A+++A+++AV AVI AVII	MOVING SHOCK 8.93 y8E + 02 5.0034 E + 01 1.2000 E + 01 1.9450 E + 02 7.2354 E + 00 1.453 y E + 00 7.02 7 C E - 01 2.216 U E + 01 3.284 1 E - J1 3.431 y E - 01 3.243 y E - 01 9.048 7 E - 06 2.930 3 E - 15 1.262 0 E - 30 1.557 x E - 51	STANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+00 1.8661E+00 7.6506E-01 4.0346E+00	REFLECTED SHOCK 1.2592E+04 8.5168E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352E+00 4.9429E-01 2.8349E-02 4.6044E-01 1.6924E-02 5.7035E-07 6.7214E-15 3.2534E-41 1.2585E-61	P T RHO H A A A A A A A A A A A A A A A A A A	MUVING SHOCK 9-9082E+02 5-1533E+01 1-2403E+01 2-1495E+02 7-5084E+00 1-888IE+00 1-9550IE+00 7-0574E+01 2-3366E+01 3-5486E+01 3-5486E+01 1-6473E-05 1-2180E-14 1-7998E-29 1-0871E-49	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.0665E+00 1.9362E+00 7.7450E-01 4.3815E+00 - MOLE FRACTIONS 4.8353E-01 3.9992E-02 4.6942E-01 7.0557E-03 6.0584E-08 1.0194E-16 4.0981E-29	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00 5.1047E-01 1.4985E-02 4.3064E-01 3.9906E-02 5.3560E-06 4.3577E-13 2.4456E-23 4.8552E-37 1.0738E-55
P T RHO H A S. Z GAME U SPEC I E-A+A+A++A+A+A+AVI	MOVING SHOCK 8,93 48 ± 02 5,003 4	\$TANDING SHOCK 8.9273E+03 7.2491E+01 6.5993E+01 3.5276E+02 1.0173E+01 1.5662E+30 1.8661E+30 7.6506E-01 4.0346E+03 - MULE FRACTIONS 4.6412E-01 7.3592E-92 4.6044E-01 1.8415E-03 2.2482E-09 2.4762E-19 3.2121E-33 2.3469E-51	REFLECTED SHOCK 1.2592E+04 8.5164E+01 7.4771E+01 4.2076E+02 1.1286E+01 1.6266E+00 1.9774E+00 7.5637E-01 4.2352E+00 4.9429E-01 2.8349E-02 4.6344E-01 1.6924E-02 5.7035E-07 6.7214E-15 3.2547E-26 3.2534E-41	P T RHD H H S S S S S S S S S S S S S S S S S	MUVING SHOCK 9.9082E+02 5.1533E+01 1.2403E+01 2.1495E+02 7.5084E+00 1.5501E+00 7.0574E-01 2.3366E+01 3.5490E-01 2.9022E-01 3.5486E-01 1.473E-05 1.2180E-14 1.7998E-29 1.0871E-49 1.0824E-75	STANDING SHOCK 1.0161E+04 7.9238E+01 6.0226E+01 3.9053E+02 1.0901E+01 1.6065E+00 1.9362E+00 7.7450E-01 4.3815E+00 - MOLE FRACTIONS 4.8353E-01 3.993E-02 4.6942E-01 7.0557E-03 6.0584E-08 1.0194E-16 4.0981E-29 1.9228E-45	REFLECTED SHOCK 1.4445E+04 9.1749E+01 7.7071E+01 4.6684E+02 1.1722E+01 1.6678E+00 2.0428E+00 7.3315E-01 4.4878E+00 5.1047E-01 1.8985E-02 4.3064E-01 3.9906E-02 5.3560E-06 4.3577E-13 2.4456E-23 4.8552E-37

p, = 200 N/m²

P1 = 2	2.00E+02 N/SQ-M	, U\$1= 8.43E+0	3 M/SEC	P1 = 2	.00E+05 N\20 - M	, US1= 8.80E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK
P	1.0410E+03	1.0796E+04	1.5383E+04	ρ	1.1447E+03		1.7296E+04
T	5.23156+01	8.2810E+01	9.4438E+01	7 -	5.3974E+01	8.9044E+01	9.91896+01
RHO	1.25815+01	6.6297E+01	7.8468F+01	RHD	1.2885E+31 ··		8.1293E+01
н	2.2555E+02	4.1308E+32	4.9010E+02	H ·	2.4752E+02	4.5074E+02	5.3793E+02
A	7.6514E+00	1.11495+01	1.1942E+01	A	7:95358+00	1.1537E+01	1.23948+01
S	1.5056E+JU	1.6260E+00	1.6877E+30	S	1.54105+0)	1.6641E+00	1.72746+00
ž	1.5816E+00	1.9664E+00	2.0759E+00	Ž.	1.6460E+20	2.0248E+00	2.1450E+00
GAME	7.0756E-01	7.6335E-01	7.2740E-01	GAME	7.1236E-01	7.3823E-01	7.2197E-01
Ü	2.3965E+QL	4.5538E+00	4.5757F+00	U	2.5157E+01	4.8211E+00	4.7372E+00
SPEC IES	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	3.6772E-01	4.9146E-01	5.1829E-01	E	3.9245E-01	5.0613E-01	5.3379E-01
Ā	2.6458E-01	3.0115E-02	1.6458E-02	Ā	2.15146-01	1.97076-02	1.2999E-02
Ä+	3.6767E-01	4.6539E-01	4.1224E-01	A+	3.92378-01	4.4219E-01	3.7267E-01
A++	2.22735-05	1.3033E-02	5.3007E-02	A++	4.1307E-05	3.196dE-02	8.05J1E-02
A+++	2.5002E-14	2.7934E-37	1.1702E-05	A+++	1.0934E-13	2.79498-06	3.9509E-05
A++++	6.8531E-29	1.67ø6E-15	1.9162E-12	A++++	1.0521E-27	1.1932E-13	1.9988E-11
AV	9.1158E-49	3.3584E-27	2.6210E-22	AV	6.8558E-47	2.86228-24	1.1553E-20
IVA	2.3954E-74	1.1050E-42	1.5468E-35	AVI -	1.24175-71	1.9591E-38	3.9863E-33
IIVA	0.	H.8272E-64	1.4968E-53	AVII	3.	9.7855E-58	4.2215E-50
IIIVA	ō.	1.8097E-89	1.2832E-75	1 I IVA	0.	2.6286E-81	5.7877E-71
						•	* *
			•	•			
P1 = 2	M-U2/4 50+30C.5	, US1= 8.60E+0	3 M/SEC	P1 = 2.	00E+02 N/SU-M	US1= 9.00F+0	3 M/SEC
			,				• •
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	:	MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.09235+03	1.1452E+04	1.6336E+04	Р.	1.1982E+03	1.2823E+U4 .	
Ť	5.3126E+01	8.6107E+01	9.6898E+01	T .	5.4867E+01	9.1661E+01	1.9136E+02
RHO	1.27425+01	.6.6650E+01	7. 9897F +01	RHO .	1.30095+01	6.8075E+01	8. 261 0E + 01
н	2.3641E+02	4.3014E+02	5.13#1E+02	H	2.58885+02	4.7180E+02	5.6249E+02
Ä	7.79952+00	1.1347E+01	1.2166E+01	A	8.1147E+JO	1.1733E+01	1.26245+01
ŝ	1.5232E+00	1.6452E+03	1.7376E+00	S	1.5589E+00	1.0830E+00	1.7473E+00
ž	1.6135:+00	1.9955F+00	2.110CE+00		1.67885+00	2.0550E+00	2.1807E+00
GAME	7.09655-01	7.49306-01	7.2394E-01	GAME	7.1468E-01	7.3079E-01	7.2094E-01
·u	2.45625+01	4.7022E+00	4.6596F+00	U .	2.5750±+01	4.9277E+00	4.8111E+00
•	2017021101	***************************************					***************************************
SPEC IES	·	- MULE FRACTIONS		SPECIES		- MULE FRACTIONS	
_	3.60248-01		5 2.035 41	E-	4 04335 01	. 5 13345 01	5 41435 01
E-	3.8024E-01 2.3955E-01	4.9887E-01	5.26075-01	ξ A	4.0433E-01	5.1338E-01 1.6874E-02	5.4143E-01 1.1702E-02
A A+		2.3607E-02	1.4539E-02	A +	1.9139E-01		
A++	3.8318E-01	4.557dF-01 2.1541E-02	3.9273F-01	A++	4.0422E-01 5.6942E-05	4.2611E-01	3.5237E-01 9.4436E-02
A+++	3.0236E-05		6.6639E-02	A+++	2.3531E-13	4.3627E-02	4.4430E-UZ 6.4864E-05
	5.187dE-14	1.0004E-06	2.2512E-05			6.4324E-06	
A++++	2.6>37E-28	1.7677E-14	6.7190E-12	A++++ '	4.2630E-27	5.7091E-13	5.2827E-11
AV	7.7994E-48	1.3905E-25	1.9788E-21	AV	5.7396E-46	3.47108-23	5.6213E-20
IVA	5.3431E-73	2.45d5E-40	2.9920E-34	AVI	1.6154E-70	7.4066E-37	
AVII	2.	1.9918E-60	1.0399E-51	IIVA	J.	1.73226-55	1.2058E-48
IIIVA	0.	6.6603E-d5	3.9448E-73	AVIII) •	2.8059E-78	5.4267E-69

P1 = 2.	.00E+02 N/Su-M	. US1= 9.20E+0	3 M/SEC	P1 = 2.	00E+02 N/SQ-M	. US1= 9.60E+0	3 M/SEC
	MOUSELC ELLOCH	CTANDING CHOCK	REFLECTED SHOCK	P	MONTHS SHOCK	STANDING SHUCK	REFLECTED SHOCK
	1.2529E+03	1.3525E+04	1.9223E+04	₽	1.3652E+03	1.4927E+04	` 2.1114E+04
T"	5.5019E+01	9.4036E+01	1.0345E+02		5.7963E+01	9.8265E+01	1.0746E+02
RHD	1.3111E+01	6.8946E+01	8.3810E+01	RHO '	1.3242E+01	.7.0625E+01	8.57086+01
H 1	2.7049E+02	4.9336E+02	5.8748E+02	н	2.9447E+02	5.3778E+02	6.3881E+02
A	8.2845E+00	1.1934E+01	1.2857E+01	A	8.65 93E+00	1.2347E+01	1.3333E+01
ŝ	1.5770E+00	1.7020E+00	1.76735+00	s	1.6134E+00	1.7398E+00	1.8079E+00
ž	1.7119E+00	2.08615+00	2.2172E+00	ž	1.7787E+30	2.1508E+00	2.2925E+00
GAME	7.1824E-01	7.2602E-01	7.20725-01	GAME"	7.27315-01	7.2131E-01	7.2165E-01
n and a	2.63395+01	5.0162E+00	4.8830E+00	U U	2.7507E+01	5.1677E+00	5.0244E+00
	2.03395+01	J. 0162E+00	4.86306 +00	U	2.15072+01	3.18//E+00	3.02446400
SPEC LES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	,
E-	4.1587E-01	5.2065E-01	5.4898E-01	· E-	4.3778E-01	5.3506E-01	5.6379E-01
Α	1.6835E-01	1.4779E-02	1.0571E-02	A	1.2460E-01	1.180CE-02	8.6304E-03
[A+ "	4.1571E-01	4.0851E-01	3.3201E-01	A+ '	4.3745E-01	3.7126E-31	2.91 59E-01
A++	7.9534E-05	5.6047E-J2	1.0833E-01	A++	1.6416E-04	8.1844E-02	1.35778-01
A+++	5.2576E-13	1.2877E-05	1.C130E-04	A+++	3-0140E-12	3.8892E-05	2.2230E-04
A++++	1.9304E-26	2.1307E-12	·1.2779E-10	A++++	4.7604E-25	1.7916E-11	6.2003E-10
AV	6.4175E-45	2.8627E-22	2.3857E-19	AV	1.0331E-42	d.8947E-21	3.2021E-18
IVA	7.6271E-69	1.6108E-35	3.4854E-31	AVI	1.0911E-65	2.4820E-33	
AVEI		1.4022E-53		IIVA		1.89456-50	
	0.		2.6325E-47		j.		6.6873E-45
IIIVA	0.	1.0423E-75	3.5873E-67	AVIII	0.	1.7505E-71	6.4851E-64
	*	•					
•	•						
	*	•					
	•	•					
P1 = 2.	.00E+02 N/Sy-4	. US1= 9.40E+0	3 M/SEC	P1 = 2.	.00E+02 N/SQ-N	4, US1= 9.80E+0	D3 M/SEC
P1 = 2.	.00E+02 N/Sy-M	us1= 9.40E+0	3 M/SEC	P1 = 2.	.00E+02 N/SQ-N	4, US1= 9.80E+0	D3 M/SEC
,				P1 = 2.			
e i e gaze	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
roju je d Porteira	MOVING SHOCK	STANDING SHOCK 1.4229E+04	REFLECTED SHGCK 2.0177E+04	P	MOVING SHOCK 1.4228E+03	STANUING SHOCK 1.5608E+04	REFLECTED SHOCK 2.2020E+04
р : : : : : : : : : : : : : : : : : : :	MOVING SHOCK 1.3085E+03 5.6843E+01	STANDING SHOCK 1.4229E+04 9.6228E+01	REFLECTED SHGCK 2.0177E+04 1.0547E+02	P T	MOVING SHOCK 1.4228E+03 5.9207E+01	STANDING SHOCK 1.5608E+04 1.J023E+02	REFLECTED SHOCK 2.2020E+04 1.0940E+02
p T	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01	P T CHR	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01	STANDING SHOCK 1.5608E+04 1.3023E+92 7.1271E+01	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01
p T	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1293E+02	P T RHO H	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02	STANDING SHOCK 1.5608E+04 1.3023E+92 7.127LE+01 5.6059E+02	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02
P T RHO	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+00	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214JE+01	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1243E+02 1.3093E+01	P T RHO H A	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00	STANDING SHOCK 1.5608E+04 1.J023E+92 7.127LE+01 5.6059E+02 1.2560E+01	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01
P T RHO H	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+00 1.5952E+00	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214JE+01 1.7209E+07	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1243E+02 1.3093E+01 1.7875E+00	P T RHO H A S	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.063E+02 8.8713E+00 1.6316E+00	STANDING SHOCK 1.5608E+04 1.3023E+02 7.1271E+01 5.6059E+02 1.2560E+01 1.7592E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00
P T RHO H S	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+00	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214JE+01	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1243E+02 1.3093E+01	P T RHO H A	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00	STANDING SHOCK 1.5608E+04 1.J023E+92 7.127LE+01 5.6059E+02 1.2560E+01	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01
P T RHO H	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+00 1.5952E+00	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214JE+01 1.7209E+07	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1243E+02 1.3093E+01 1.7875E+00	P T RHO H A S	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.063E+02 8.8713E+00 1.6316E+00	STANDING SHOCK 1.5608E+04 1.3023E+02 7.1271E+01 5.6059E+02 1.2560E+01 1.7592E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00
P T RHO H S	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+00 1.5952E+00 1.7453E+00	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.2143E+01 1.7209E+02 2.1182E+03	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1293E+02 1.3093E+01 1.7875E+00 2.2544E+00	P T RHO H A S Z	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.6119E+00	STANDING SHOCK 1.5608E+04 1.3023E+02 7.1271E+01 5.6059E+02 1.2560E+01 1.7592E+00 2.1849E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+00 1.5952E+00 1.7453E+00 7.2230E-01	\$TANDING \$HOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214.0E+01 1.7209E+02 2.182E+03 7.2305E-01	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.12+38+02 1.3093E+01 1.7875E+00 2.2544E+00 7.2098E-01	P T RHO H A S Z GAME	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.6119E+00 7.3363E-01	STANUING SHOCK 1.5608E+04 1.J023E+02 7.127LE+01 5.6059E+02 1.2550E+01 1.7552E+00 2.1849E+00 7.2039E-01	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01
RHO H A S Z GAME	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+30 1.5952E+00 1.7453E+30 7.2230E-01 2.6925E+01	\$TANDING \$HOCK 1.429E+04 9.6228E+01 6.9810E+01 5-1536E+02 1.2143E+01 1.7269E+07 2.182E+00 7.2305E-01 5.0949E+00	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1293E+02 1.3093E+01 1.7875E+00 2.2544E+00 7.2098E-01 4.9538E+00	P T RHO H A S Z GAME U	MOVING SHOCK 1.4228E.03 5.9207E.01 1.3263E.01 3.0683E.02 8.8713E.00 1.6316E.00 1.6316E.01 7.3363E.01 2.8084E.01	STANUING SHOCK 1.5008E+04 1.0023E+02 7.127IE+01 5.6059E+02 1.2560E+01 1.7592E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 5.0952E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+30 1.5952E+00 1.7453E+30 7.2230E-01 2.6925E+01	\$TANDING \$HOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214.0E+01 1.7209E+02 2.182E+03 7.2305E-01	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1293E+02 1.3093E+01 1.7875E+00 2.2544E+00 7.2098E-01 4.9538E+00	P T RHO H A S Z GAME	MOVING SHOCK 1.4228E.03 5.9207E.01 1.3263E.01 3.0683E.02 8.8713E.00 1.6316E.00 1.6316E.01 7.3363E.01 2.8084E.01	STANUING SHOCK 1.5608E+04 1.J023E+02 7.127LE+01 5.6059E+02 1.2550E+01 1.7552E+00 2.1849E+00 7.2039E-01	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 5.0952E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+30 1.5952E+00 1.7453E+01 2.6925E+01	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.2143E+01 1.7209E+07 2.182E+07 7.2305E-01 5.0949E+00	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1243E+02 1.3093E+01 1.7875E+00 2.2544E+00 7.2098E+01 4.9538E+00	P T RHO H A S Z GANE U SPECIES	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.316E+01 2.8084E+01	STANUING SHOCK 1.5608E+04 1.J023E+02 7.127IE+01 5.6059E+02 1.2560E+01 1.7592E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 5.0952E+00
RHO H A S Z GAME U	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.4236E+00 1.5952E+00 1.7453E+30 7.2230E-01 2.6925E+01	\$TANDING \$HOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214JE+01 1.7269E+02 2.1182E+03 7.2305E-01 5.0949E+00 - MOLE FRACTIONS 5.2791E-01 1.3136E-02	REFLECTED SHGCK 2.017E+04 1.0547E+02 8.4857E+01 6.1293E+02 1.3093E+01 1.7875E+00 2.2544E+00 7.2098E-01 4.9538E+00	P T RHO H A S Z GANE U SPECIES	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.6316E+00 7.3363E-01 2.8084E+01	STANDING SHOCK 1.5608E+04 1.3023E+02 7.127IE+01 5.6059E+02 1.7550E+01 1.7552E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 15.0952E+00
P T RHO H A S Z GAME' U SPECIES	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+30 1.5952E+00 1.7453E+01 2.6925E+01	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.2143E+01 1.7209E+07 2.182E+07 7.2305E-01 5.0949E+00	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1243E+02 1.3093E+01 1.7875E+00 2.2544E+00 7.2098E+01 4.9538E+00	P T RHO H A S Z GANE U SPECIES	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.316E+01 2.8084E+01	STANUING SHOCK 1.5608E+04 1.J023E+02 7.127IE+01 5.6059E+02 1.2560E+01 1.7592E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 5.0952E+00
PARMO HAS SECOND SPECIES SEA	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+30 1.5952E+00 1.7453E+30 7.2230E-01 2.6925E+01	\$TANDING \$HOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.2140E+01 1.7209E+02 2.182E+03 7.2305E-01 5.0949E+00 - MOLE FRACTIUNS 5.2791E-01 1.3136E-02 3.9003E-01	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1243E+02 1.3093E+01 1.7875E+00 2.2544E+00 7.2098E+01 4.9538E+00	P T RHO H A S Z GAME U SPECIES E A	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.3119E+00 7.3363E-01 2.8084E+01	STANUING SHOCK 1.5608E+04 1.0023E+02 7.127LE+01 5.6059E+02 1.2550E+01 1.7552E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 5.0952E+00
PARHO HAS Z GAME U SPECIES	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+30 1.5952E+00 1.7453E+30 7.2230E+01 2.6925E+01	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214JE+01 1.72C9E+07 2.182E+07 7.2305E-01 5.0949E+00 - MOLE FRACTIONS 5.2791E-01 1.3136E-02 3.9003E-01 6.8902E-02	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1243E+01 1.3875E+00 2.2544E+00 7.2098E+01 4.9538E+00 5.5643E-01 9.5588E-03 3.1174E-01 1.2212E-01	P T RHO H A S Z GAME U SPECIES E - A A + A + +	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.363E-01 2.8084E+01	STANUING SHOCK 1.5608E+04 1.0023E+02 7.127IE+01 5.6059E+02 1.2560E+01 1.7592E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 5.0952E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.4236E+02 4.4651E+30 1.5952E+00 1.7453E+30 7.2230E-01 2.6925E+01 4.2703E-01 1.4606E+01 4.2600E-01 1.1304E-04	\$TANDING \$HOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.2143E+01 1.7209E+00 2.182E+00 7.2305E-01 5.0949E+00 - MOLE FRACTIONS 5.2791E-01 1.3136E-02 3.9003E-01 6.8902E-02 2.3290E-05	REFLECTED SHGCK 2.017 Te+04 1.054 TE+02 8.485 TE+01 6.12 + 38 + 02 1.30 + 38 + 01 1.787 5E+00 2.2544E+00 7.20 + 8E+00 4.953 8E+00 5.5643 E-01 9.558 BE-03 3.11 Te-01 1.221 2E-01 1.5224 E-04	P T RHO H A S Z GAME U SPECIES E - A A + A + A + A + + A + + + A + + + A + + + A - A + A +	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.6119E+00 7.3363E-01 2.8084E+01 4.4808E-01 4.4759E-01 2.4566E-04 4.0264E-12	STANDING SHOCK 1.5608E+04 1.3023E+02 7.1271E+01 5.6059E+02 1.7552E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 5.0952E+00 7.7772E-03 2.7184E-01 1.4910E-01 3.1620E-04
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+30 1.5952E+00 1.7453E+30 7.2230E-01 2.6925E+01 4.2703E-01 1.4606E-01 1.1304E-04 1.2304E-12 9.3141E-26	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214JE+01 1.7209E+02 2.1182E+03 7.2305E-01 5.0949E+00 - MOLE FRACTIONS 5.2791E-01 1.3136E-02 3.9003E-01 6.8902E-02 2.3290E-05 6.6366E-12	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1243E+02 1.3393E+01 1.7875E+00 2.2544E+00 7.2098E+01 4.9538E+00 5.5643E-01 9.5588E-03 3.1174E-01 1.2212E-01 1.5224E-04 2.8860E-10	P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++	MOVING SHOCK 1.4228E.03 5.9207E.01 1.3263E.01 3.0683E.02 8.8713E.00 1.6316E.00 1.6316E.00 1.3363E.01 2.8034E.01	STANUING SHOCK 1.5008E+04 1.0023E+02 7.127LE+01 5.6059E+02 1.2560E+01 1.7552E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 5.0952E+00 5.7498E-01 7.7772E-03 2.7184E-01 1.4910E-01 3.1620E-04
RHO H A S CAME U SPECIES	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+30 1.5952E+00 1.7453E+30 7.2230E-01 2.6925E+01 4.2703E-01 1.4606E-01 1.1304E-04 1.2304E-12 9.3141E-24	\$TANDING \$HOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214JE+01 1.7269E+07 2.1182E+03 7.2305E-01 5.0949E+00 - MOLE FRACTIONS 5.2791E-01 1.3136E-02 3.9003E-01 6.8902E-02 2.3290E-05 6.6366E-12 1.7838E-21	REFLECTED SHGCK 2.01 7 TE+04 1.054 TE+02 8.485 TE+01 6.12 43 E+01 1.33 93 E+01 1.78 75 E+00 2.254 4E+00 7.20 98 E+01 4.95 38 E+00 5.564 3 E+01 9.558 8 E+03 3.11 7 4 E+01 1.22 12 E+01 1.52 2 4 E+04 2.8860 E+12 9.074 1E+19	P T RHO H A S Z Z GAME U SPECIES E-A A+A++A+++A	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.6316E+01 2.8034E+01 4.4808E-01 4.4759E-01 2.4566E-04 6.0264E-12 2.9440E-21	STANUING SHOCK 1.5608E+04 1.0023E+02 7.127IE+01 5.6059E+02 1.2560E+01 1.7552E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 5.0952E+00 5.7498E-01 7.7772E-03 2.7184E-01 1.4910E-01 3.1620E-04 1.2715E-09 1.0497E-17
RHO H A S Z GAME U SPECIES	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.4236E+02 4.4651E+00 1.7453E+01 7.2230E-01 2.6925E+01 4.2703E-01 1.4606E-01 4.2600E-01 1.1304E-04 4.2104E-12 9.3141E-26 8.4076E-44	\$TANDING \$HOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.2143E+01 1.7209E+00 2.182E+00 7.2305E-01 5.0949E+00 - MOLE FRACTIONS 5.2791E-01 1.3136E-02 3.9003E-01 6.8902E-02 2.3290E-05 6.6366E-12 1.7838E-21 2.3467E-34	REFLECTED SHGCK 2.017 7E+04 1.054 7E+02 8.485 7E+01 6.12 + 33E+02 1.30 + 33E+01 1.787 5E+00 2.2544 E+00 7.20 + 8E-01 4.953 8E+00 5.564 3E-01 9.55 8E-03 3.117 E-01 1.221 E-01 1.522 E-04 2.8860 E-12 9.0741 E-19 2.538 E-30	P T RHO H A S C GAME U SPECIES E- A A+ A+++ A++++ AV AVI	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.6119E+00 7.3363E-01 2.8084E+01 	STANUING SHOCK 1.5608E+04 1.3023E+02 7.127LE+01 5.6059E+02 1.2560E+01 1.7552E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 15.0952E+00 5.7098E-01 7.7772E-03 2.7184E-01 1.4910E-01 3.1620E-04 1.2715E-09 1.0497E-17 9.5322E-29
P T RHO H A S Z GAME U SPECIES E-A A A A A A A A A A A A A A A A A A A	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.8236E+02 8.4651E+30 1.5952E+00 1.7453E+01 2.6925E+01 4.2703E-01 1.4606E+01 4.2640E+01 1.1304E+04 1.2304E+12 9.3141E+26 4.4676E+44	STANDING SHOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.214JE+01 1.72C9E+02 2.182E+02 7.2305E-01 5.0949E+00 - MOLE FRACTIUNS 5.2791E-01 1.3136E-02 3.9003E-01 6.8902E-02 2.3290E-05 6.6366E-12 1.7638E-21 2.3467E-34 6.4644E-52	REFLECTED SHGCK 2.0177E+04 1.0547E+02 8.4857E+01 6.1243E+02 1.3393E+01 1.7875E+00 2.2544E+00 7.2098E+01 4.9538E+00 5.5643E-01 9.5588E-03 3.1174E-01 1.2212E-01 1.5224E-04 2.8860E-12 9.0741E-19 2.5386E-33 4.4597E-46	P T RHO H A S Z GAME U SPECIES E-A A+A++A+++A+++A++AV AVI AVII	MOVING SHOCK 1.4228E.03 5.9207E.01 1.263E.01 3.0683E.02 8.8713E.00 1.6316E.00 1.6316E.01 2.8084E.01 2.8084E.01 4.4759E.01 2.4586E.04 4.4759E.01 2.4586E.04 4.9781E.41 1.0712E.63	STANUING SHOCK 1.5608E+04 1.0023E+02 7.127IE+01 5.6059E+02 1.2560E+01 1.7592E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 5.0952E+00 5.7U98E-01 7.7772E-03 2.7184E-01 1.4910E-01 3.1620E-04 1.2715E-09 1.0497E-17 9.5322E-29 8.5167E-44
RHO H A S Z GAME U SPECIES	MOVING SHOCK 1.3085E+03 5.6843E+01 1.3190E+01 2.4236E+02 4.4651E+00 1.7453E+01 7.2230E-01 2.6925E+01 4.2703E-01 1.4606E-01 4.2600E-01 1.1304E-04 4.2104E-12 9.3141E-26 8.4076E-44	\$TANDING \$HOCK 1.4229E+04 9.6228E+01 6.9810E+01 5.1536E+02 1.2143E+01 1.7209E+00 2.182E+00 7.2305E-01 5.0949E+00 - MOLE FRACTIONS 5.2791E-01 1.3136E-02 3.9003E-01 6.8902E-02 2.3290E-05 6.6366E-12 1.7838E-21 2.3467E-34	REFLECTED SHGCK 2.017 7E+04 1.054 7E+02 8.485 7E+01 6.12 + 33E+02 1.30 + 33E+01 1.787 5E+00 2.2544 E+00 7.20 + 8E-01 4.953 8E+00 5.564 3E-01 9.55 8E-03 3.117 E-01 1.221 E-01 1.522 E-04 2.8860 E-12 9.0741 E-19 2.538 E-30	P T RHO H A S C GAME U SPECIES E- A A+ A+++ A++++ AV AVI	MOVING SHOCK 1.4228E+03 5.9207E+01 1.3263E+01 3.0683E+02 8.8713E+00 1.6316E+00 1.6119E+00 7.3363E-01 2.8084E+01 	STANUING SHOCK 1.5608E+04 1.3023E+02 7.127LE+01 5.6059E+02 1.2560E+01 1.7552E+00 2.1849E+00 7.2039E-01 5.2344E+00	REFLECTED SHOCK 2.2020E+04 1.0940E+02 8.6351E+01 6.6512E+02 1.3575E+01 1.8283E+00 2.3309E+00 7.2266E-01 15.0952E+00 5.7098E-01 7.7772E-03 2.7184E-01 1.4910E-01 3.1620E-04 1.2715E-09 1.0497E-17 9.5322E-29

P1 - 200 N/ m2

P1 = 2	-00E+02 N/SQ-4	. US1= 1.00E+0	4 M/SEC	P1 = .	2-00E+02 N/SQ-M	. US1= 1.04E+0	4 M/SEC
	MONTHS SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
•	MOVING SHOCK		2.2880E+04	. Р			
P	1.4813E+03	1.6259E+04			1.6006E+33	1.7409E+04	2.4373E+04
T ·	6.0616E+01	1.0209E+02	1.1133E+02	Ţ	6.4176E+01	1.0560E+02	1.1515E+02
RHO	1.3248E+01	7.1759E+01	8.6714E+01	RHO	1.3082E+01 ·		. 8.6420E+01
н	3.1944E+02	5.8377E+02	6.9182E+32	н	3.4538E+02	6.3104E+02	7.4622E+02
A	9.1067E+00	1.2773E+01	1.3821E+C1	A . ,	9.6744E+00	. 1.3202E+01 .	1.4321E+01
5	1.6498E+00	1.7787E+00	1.8490E+30	S	1.6859E+00	1.8182E+00	1.8912E+00
Z	1.8446E+00	2.21935+00	2. 369 9E+00	Z	1.9C64E+00	2.29015+00	2.4493E+00
GAMÉ	7.4172E-01	7.2009E+01	7.2395E-01	GAME	7.65005-01	7.2076E-01	7.2724E-01
Ų	2.86546+01	5.2985E+00	5.1664E+00	U	2.97725+01	5.4190E+00	5.3102E+00
SPEC I È S		- MOLE FRACTIONS		SPEC IE	s	- MOLE FRACTIONS	
E-	4.5787E~01	5.4942E-01	5.7804É-01	€-	4.7545E-01	. 5.6333E-01	5.9172E-01
A	d.4644E-02	9.6078E-03	6.9756E-03	Ä	5.01896-02	7.8393E-03	5.5083E-03
A +	4.571 DE-01	3.3263E-01	2.5236E-01	. Â+	4.7326E-01	2.9452E-01	2.1466E-01
				A++			
A++	3.8273E-04	1.0825E-01	1.6218E-01	4+++	1.0968E-03	1.34126-01	
A+++	2.3376E-11	9.39246-05	4.4163E-04	A++++	3.0022E-10	1.9565E-04	8.2404E-04
A++++	2.0820E-23	1.01148-10	2.5263E-09		2.21675-21	4.3737E-10	9.2340E-09
AV	4.2307E-40	1.4871E-19	3.2756E-17	AV	6.351 JE-37.		2.8257E-16
AVI	8.5968E-62	1.5722E-31	5.1787E-28	IVA	3.0111E-57	5.4267E-30	1.2811E-26
IIVA	6.1188E-94,	7.3021E-48	9.7705E-43	IIVA	2.55336-85	1.1836E-45	9.9531E-41
LIIVA).	5.5084E-68	5.6069E-61	, I I I I VA	0.	5.3923E-65	2.9669E-58
.P1 = 2	-00E+02 N/SQ-M	, US1= 1.02E+0	4 M/SEC	P1 =	2.00E+02 N/S4-M	, USI = 1.06E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MANUTAL CURSON	CTANGING CHOCK	DEEL COTED CHOCH
	1.54065+03	1.6864E+04	2.3671E+04	P	MUVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P T	6.22486+01	1.03385+02		Ī	1.6608E+03	1.7871E+04	2.4959E+04
RHO			1.1325E+02		6.64615+01	1.0726E+02	1.1703E+C2
	1.31906+01	7.2012E+01	8.6751E+01	RHO	1.29226+01	7.1632E+01	
Ĥ	3.3229E+J2	6.0725E+02	7.1885E+02	н	3.5869E+02	6.5493E+02	7.7369E+02
Ą	9.37265+00	1.2987E+01	1.4070E+01	Α .	1.0000E+01	1.3417E+01	1.4575E+01
S	1.6679E+00	1.7983E+03	1.8699€+00	S	1.70358+00	1.8384E+00 .	1-9126E+00
Z	1.8763E+00	2.2544E+00	2.4094E+00	Z	1.93395+00	2.3261E+00	2.4892E+00
GAME	7.5213E-01	7.2025E-01	7.2548E-01	GAME	7.78105-01	7.2155E-01	7.2917E-01
· U	2.9217E+01	5.3599E+00	5 • 23 81E + 00	U	3.0310E+01	5.4761E+00	5.3825E+00
SPECIES		- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
E-	4.6704E-01	5.5643E-01	5 • 84 96 E-01	€	4.82925-01	5.7009E-01	5.9826E-01
Ā	6.655 DE-02	8.6867E-03	6.2210E-03	Ā	3.6219E-J2	7.0545E-03	4.8397E-03
Ã+	4.657dE-01	3.1349E-01	2.3329E-01	۸÷	4.78d1E-01	2.7590E-01	1.9664E-01
A++	6.2741E-04	1.2126E-01	1.7492E-01	A++	2.05256-03	1.4669E-01	1.9915E-01
A+++	7.7498E-11	· 1.3748E-04	6.0710E-04	A+++	1.3811E-09	2.7154E-04	1.1049E-03
4+++	1.8786E-22	2.1574E-10	4.8828E-09	A++++			1.7090E-08
	1.36018-38	5.13296-19	9.78778-17		3.6171E-20	8.4671E-10	
AV AVI	1.320 dE-59	9.7936E-31	2.6417E-27	AV	5-1896E+35	4.8361E-18	7.8802E-16
	2.16246-88	1.01126-46	1.02356-41	I VA	1.8698E-54	2.6973E-29	5.9014E-26
AVII				IIVA	3.9424E-81	1.1832E-44	8.97016-40
AVIII	0.	1.9315E-66	1.3573E-59	1 I I VA	ე.	1.2136E-63	5.8410E-57

P1 = 2.00E+02 N/SU-M, USI= 1.08E+04 M/SEC	P1 = 2.00E+02 N/SQ-M, US1= 1.15E+04 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 1.7218E+03 1.8274E+04 2.5474E+04	P 1.9467E+03 2.0092E+04 2.7844E+04
T 6.9106E+01 1.0868E+02 1.1897E+02	T 7.7752E+01 1.1494E+02 1.2655E+02
RHO 1.2722E+01 7.1038E+01 8.4637E+01	RHO 1.2319E+01 7.0094E+01 8.2350E+01
H 3.7225E+02 6.7913E+02 8.0198E+02	H 4.2176E+02 7:6819E+02 9.0511E+02
A 1.0302E+01 1.3634E+01 1.4836E+01	À 1.0795E+01 1.4447E+01 1.5814E+01
\$ 1.720E+00 1.8588E+00 1.9347E+00	\$ 1.7786E+00 1.9296E+00 2.0100E+00
Z 1.9585E+00 2.3625E+00 2.5300E+00	Z 2.J323E+00 2.4939E+00 2.6718E+00
GAME 7.8412:-01 7.2259E-01 7.3130E-01	GAME 7.3752E-01 '7.2813E-01 7.3963E-01
U 3.0842E+01 5.5320E+00 5.4789E+00	U 3.2750E+01 5.7646E+00 5.7636E+00
SPECIES MOLE FRACTIONS	SPECIES MULE FRACTIUNS
E- 4.8939E-01 5.7673E-01 6.0475E-01	E- 5.0795E-J1 5.9902E-01 6.2572E-01
A 2.5251E-02 6.3231E-03 4.2050E-03	A 9.2102E-03 4.2233E-03 2.4311E-03
A+ 4.8131E-01 2.5754E-01 1.7883E-01	A+, 4.5772E-01 1.9553E-01 1.2198E-01
A++ 4.0398E-03 1.5904E-01 2.1074E-01	A++ 2.5113E-02 2.0021E-01 2.4585E-01
A+++ 7.2197E-09 3.7028E-04 1.4781E-03	A+++ 6.9186E-07 .1.0242E-03 4.0136E-03
A++++ 7.3780E-19 1.5889E-09 3.1632F-08	A++++ 3.1874E-15 1.3207E-08 2.7747E-07
Ay 5.8157E-33 1.3623E-17 2.2021E-15	AV 3.0355E-27 4.6042E-16 8.5700E-14
AVI 1.6296E-51 1.2488E-28 2.7289E-25	AVI 2.9117E-43 2.3526E-26 6.5799E-23
AVII 5.2101E-77 1.0684E-43 8.1196E-39	AVII 2.6056E-65 2.0184E-40 2.2112E-35
AVIII 0. 2.3830E-62 1.1556E-55	AVIII 0. 6.5456E-58 5.2929E-51
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·	
P1 = 2.005+02 N/SU-M, US1= 1.10E+04 M/SEC	P1 = 2.00E+02 N/SQ-M, US1= 1.20E+04 M/SEC
•	P1 = 2.00E+02 N/SQ-M, US1= 1.20E+04 M/SEC
. 3.	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960E+04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+04
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960E+04 T 7.1916E+01 1.1051E+02 1.2092E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+04 T 6.1990E+01 1.1996E+02 1.3320E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960F+04 T 7.1916E+01 1.1051E+02 1.2092E+02 RHO 1.2523E+01 7.0390E+01 8.3525E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+04 T 6.1990E+01 1.1996E+02 1.3320E+02 RHD 1.2380E+01 7.0859E+01 5.2580E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960E+04 T 7.1916E+01 1.1051E+02 1.2092E+02 RHO 1.2523E+01 7.0390E+01 8.3525E+01 H 3.3605E+02 7.0366E+02 8.302ZE+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+04 1.3320E+02 1.3320E+02 RHO 1.2380E+01 7.0859E+01 8.2580E+01 H 4.5917E+02 8.3685E+02 9.8600E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960F+04 T 7.1916E+01 1.1051E+02 1.2092E+02 RHO 1.2523E+01 7.0390E+01 8.3525E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+04 T 5.1990E+01 1.1996E+02 1.3320E+02 RHO 1.2380E+01 7.0859E+01 5.2580E+01 H 4.5917E+02 8.3685E+02 9.8600E+02 A 1.1105E+01 1.5677E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960E+04 T 7.1916E+01 1.1051E+02 1.2092E+02 RHO 1.2523E+01 7.0390E+01 8.3525E+01 H 3.3605E+02 7.0366E+02 8.3022E+02 A 1.3509E+01 1.3854E+01 1.5099E+01 S 1.7361E+00 1.8793E+00 1.9564E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+04 1.1296E+01 1.1996E+02 1.3320E+02 1.3320E+01 5.2580E+01 5.2580E+01 6.2580E+01 6.2580E+02 6.2680E+02 6
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960E+04 T 7.1916E+01 1.1051E+02 1.2092E+02 RHO 1.2523E+01 7.0390E+01 8.3525E+01 H 3.3605E+02 7.0366E+02 8.3022E+02 A 1.359E+01 1.3854E+01 1.5099E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+04 1.290E+01 1.1996E+02 1.3320E+02 1.320E+01 1.230E+01 1.230
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960E+04 T 7.1916E+01 1.1051E+02 1.2092E+02 RHO 1.2523E+01 7.0390E+01 8.3525E+01 H 3.3605E+02 7.0366E+02 8.3022E+02 A 1.3509E+01 1.3854E+01 1.5099E+01 S 1.7361E+00 1.8793E+00 1.9564E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+04 1.1996E+02 1.3320E+02 1.3320E+01 5.2580E+01 5.2580E+01 6.2580E+01 6.2580E+02 6.2680E+02 6
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960E+04 T 7.1916E+01 1.1051E+02 1.2092E+02 RHO 1.2523E+01 7.0390E+01 8.3525E+01 H 3.3605E+02 7.0366E+02 8.3022E+02 A 1.1509E+01 1.3654E+01 1.5099E+01 S 1.738IE+00 1.8793E+00 1.9564E+00 Z 1.9806E+03 2.3994E+00 2.5702E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+04 1.390E+01 1.2380E+01 7.0859E+01 6.2580E+01 H 4.5917E+02 8.3685E+02 9.8600E+02 A 1.1105E+01 1.5099E+01 1.6577E+01 S 1.8186E+00 1.9791E+00 2.0621E+00 2.2089JE+00 2.5903E+00 2.7715E+00
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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960F+04 T 7.1916E+01 1.1051E+02 1.2092E+02 RHO	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+02 1.3320E+02 RHO 1.2380E+01 7.0859E+01 5.2580E+01 H 4.5917E+02 8.3685E+02 9.8600E+02 A 1.1105E+01 1.599E+01 1.6577E+01 S 1.8186E+00 1.9791E+00 2.0621E+00 Z 2.089JE+00 2.5903E+00 2.7715E+00 GAME 7.2007E-01 7.3369E-01 7.4440E-01 U 3.4188E+01 5.9829E+00 6.0202E+00 SPECIES SPECIES MOLE FRACTIONS SPECIES MOLE FRACTIONS SPECIES MOLE FRACTIONS SPECIES SP
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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.7837E+03 1.8664E+04 2.5960F+04 T 7.1916E+01 1.1051E+02 1.2092E+02 RHO	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.1205E+03 2.2018E+04 3.0485E+02 1.3320E+02 RHO 1.2380E+01 7.0859E+01 5.2580E+01 H 4.5917E+02 8.3685E+02 9.8600E+02 A 1.1105E+01 1.599E+01 1.6577E+01 S 1.8186E+00 1.9791E+00 2.0621E+00 Z 2.089JE+00 2.5903E+00 2.7715E+00 GAME 7.2007E-01 7.3369E-01 7.4440E-01 U 3.4188E+01 5.9829E+00 6.0202E+00 SPECIES SPECIES MOLE FRACTIONS SPECIES MOLE FRACTIONS SPECIES MOLE FRACTIONS SPECIES SP

P1 = 2	2.00E+02 N/SQ-M	, US1= 1.25E+0	4 M/SEC	· P1 = 2	-00E+02 N/SQ-M	. US 1= 1.35E+0	4 M/SEC
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	MONTHS CHOCK		BEEL COVER BURGEY				AFELERTED EUREK
ρ.	MOVING SHOCK	STANDING SHOCK		_	MOVING SHOCK		REFLECTED SHOCK 4.0615E+04
Ŧ	2.3034E+03 8.5383E+01	2.4234E+04 1.2561E+02	3.3590E+04 1.4078E+02	P T	2.6937E+03	2.9168E+04 1.3885E+02	1.55926+02
RHO	1.2546E+01	7. 1821E+01			9.1143E+01		8.5300E+01
H	4.9823F+02	9. 0900E+02	8.3148E+01 1.0720E+03	RHO H	1.2947E+01	7. 3203E+01 1. 0625E+03	1.2559E+03
A	1.1445E+01	1.5799E+01	1.7346E+01	Α	5.8120E+02 1.2163E+01	1.7225E+01	1.8750E+01
s	1.8584E+00	2. 0280E+00	2.1148E+00	\$	1.9390E+00	2. 12515+00	2.2162E+00
ž	2.1502E+00	2.68645+00	2.8697E+00	ž .	2.2828E+00	2.8696E+00	3.0537E+00
GAME	7.1350E-01	7. 3972E-01	7.4481E-01	GAM E	7.1106F-01	7. 4467E-01	7.3838E-01
Ü	3.5654E+01	6.2379E+00	6.3113E+00	U	3.8609E+01	6.8313F+00	6.9090E+00
J	3030312101		0.51150.00	· ·	7.00072.01		
SPECIES	·	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	5.3493E-01	6.2775E-01	6.5153E-01	€-	5.6194F-01	6.5152E-01	6.7253E-01
A	4-6197E-03	2.1030E-03	9.0709E-04	A	2.9111E-03	8.3406E-04	3. 2709E-04
A+	3.8598E-01	1.1669E-01	6.0164E-02	A+	3.0842E-01	5.9577F-02	2.9079E-02
A++	7.4455E-02	2.4929E-01	2.7085E-01	A++	1.2666F-01	2.7225E-01	2.5084E-01
A+++	1.3378E-05	4.1574E-03	1.6541E-02	A++÷	7.2411F-05	1.58058-02	4.7119E-02
A++++	8.5609E-13	2.8244E-07	7. 2501E-06	A++++	12.3941E-11		1.0178E-04
AV	2.2838E-23	8.2556E-14	2.3554F-11	AV	5.2236F-21	1.6739E-11	2.5324E-09
I VA	1.2689E-37	5.7630E-23	3.2584E-19	AVI	3.8529F-34	1.8095E-19	4.3200E-16
IIVA	2.74288-57	1.6390E-35	4.9885E-30	IIVA	2.8989E-52	1.9342F-30	1.7621E-25
AVIII	2.0809E-81	3.1577E-51	1. 0324E-43	AVIII	1.4558E-74	2.5800F-44	1.7106E-37
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n							4 4465.5
F1 ~ 2	2.00E+02 N/SQ-M	. US 1= 1.30E+0	4 4/366	P1 = 2	.00E+02 N/SQ-H	. US1= 1.40E+0	14 H/3EC
				•		*	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р '	2:4947E+03	2.66365+04	3.6998E+04	Р	2.9003E+03	3.1820E+04	4.4385E+04
T -	8.8364E+01	1.3186E+02	1.4852E+02	T	9.3839E+01	1.4575E+02	1.6306E+02
RHO	1.2745E+01	7.2705E+01	8.4078F+01	RHO	1.3135E+01 .	7.3920E+01	8.6504E+01
н	5.3891F+02	9.8428E+02	1.1622E+03	н	6.2508E+02	1.1438E+03	1.3528E+03
Α ·	1.17995+01	1.6512E+01	1.8063E+01	Α	1.2540E+01	1.7867E+01	1.9453E+01
S	1.8985E+00	2.07585+00	2.1662E+00	S	1.9798E+00	2.1716E+00	2.2663E+00
Z	2.2150E+00	2.7785E+00	2.9629E+00	Z	2.3531E+00	2.95345+00	3.1467E+00
GAME	7.1124E-01	7.4420E-01	7.4144E-01	GAME	7.1217E-01	7.4157E-01	7.3753E-01
· U	3.7130E+01	6.5220E+00	6.6152E+00	U	4.0087E+01	7.1333E+00	7.1849E+00
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SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	5.4854E-01	6.4009E-01	6.6249E-01	£-	5.7503E-01	6.6141E-01	6.8220E-01
A	3.6301E-03	1.3695E-03	5.3517E-04	A	2.34615-03	5.1490E-04	
A+	3.4715E-01	8.5165E-02	4.1328E-02	Δ+	2.7037E-01	4.2145E-02	2.0758E-02
A++	1.0065E-01	2.6519E-01	2.6580E-01	Δ++	1.5212F-01	2.6857E-01	2.2933E-01
A+++	3,3666E-05	8.1783E-03	2.9810E-02	A+++	1.4157E-04	2.7344E-02	6.7227E-02
A+++	5.1953E-12	1.3157E-06.	3.0820E-05	A++++	9.3481F-11	2.3525E=05	2.7651E-04
AV	4.2641E-22	1.1563E-12	2.9910E-10	AV	4.9350E-20	1.7511F-10	1.5692E-08
AVI	9.39945-36	3.1250E-21	1.59356-17	IVA	1.0703E-32	6.5531E-18	7.4386E-15
AVII	1.3303F-54	5.3685E-33	1.4267E-27	IIVA	3.43386-50	3.5727E-28	1.1421E-23
AVIII	8.9571E-78	8.4618E-48	2.3364E-40	IIIVA	8.8667E-72	3,2107E-41	5.2713E-35
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P1 = 2	2.00E+02 N/SQ-M	. US1= 1.45E+0	4 M/SEC		· P1 = 2	.00E+02 N/SQ-M	, US1= 1.55E+0	04 M/SEC
*								
	MOVING SHOCK	STANDING SHOCK	BEELECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	3.1143E+03	3.4572E+04	4.8268E+04		P			
7	9.6538E+01	1.5252E+02	1.6999E+02		· 1	3.5636E+03	4.0251E+04	5.6221E+04
RHO						1.0225E+02	1.6517E+02	1.8380E+02
	1.3301E+01	7.4637E+01	8.7592E+01		RHO	1.3536E+01	7.5974E+01	8.9012E+01
H	6.7055E+02	1.2280E+03	1.4527E+03		H	7.6623E+02	1.4050E+03	1.6625E+03
A	1.2932E+01	1.8491E+01	2.0178E+01		A	1.3779E+01	1.9760E+01	2.1703E+01
<u>s</u> .	2.0210E+00	2.2184E+00	2-3163E+00		<u>S</u>	2.1043E+00	2.3114E+00	2.4152E+00
, z `	2.42556+00	3.0370E+00	3.2417E+00		Z	2.5748E+00	3-2076E+00	3-4364E+00
GAME	7.1425E-01	7.3813E-01	7.3887E-01		GAME	7.2117E-01	7.3697E-01	7.4575E-01
U	4.1561E+01	7.41726+00	7.4484E+00		U	4.4491E+01	7. 9385E+00	7.9716E+00
SPECIES	·	- MOLE FRACTIONS			SPECIES		- MOLE FRACTIONS	
				, -				
E-	5.8771E-01	6.7073E-01	6.9152E-01		E-	6.1162E-01	6.88?4E-01	7.0900E-01
Δ	1.8799E-03	3.2253E-04	1.2951E-04		A	1.1441E-03	1.3568E-04	5.1023E-05
Δ+	2.3338E-01	3.0137E-02	1.4935E-02		A+	1.6368E-01	1.6134E-02	7.5998E-03
A++	1.7678E-01	2.5592E-01	2.0431E-01		A++	2.2274E-01	. 2.1483E-01	1.5128E-01
A+++	2.6098E-04	4.2821E-02	8.8463E-02		A+++	8.1508E-04	8.0223E-02	1.2946E-01
A++++	3.3197E-10	7.4577E-05	6.4477E-04		A++++	3.7390E-09	4.4482E-04	2.6114E-03
AV	4.0676E-19	1.3649E-09	7.6184E-08		AV	2.3650E-17	3.5797E-08	1.1371E-06
AVI	2.4948E-31	1.5496F-16	8.9828E-14	•	AV I	1.0872E-28	2.5443E-14	6.8006E-12
AVII	3.34868-49	3.5933F-26	4.4700E-22		IIVA	2.2416E-44	6.3702E-23	2.7047E-19
TIVA	4.7645E-69	1.7597E-38	8.2465E-33	_	TITVA	7.6153E-64	5.12298-34	5.7984E-29
								•
	•	•						
21 -		, US1= 1.50E+04						
P1 = 4	2.00E+02 N/SQ-M	, 051= 1.506+04	4 M/SEC		PI = 2	.00E+02 N/SQ-M	. US1= 1.60E+0	4 M/SEC
		•						
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.3355E+03	3.7396E+04	5.2227E+04		Р	3.7983E+03	4.3086F+04	6.0191E+04
T	9.9315E+01	1.5897E+02	1.7685E+02		T	1.0543E+02	1.7132E+02	1.9094E+02
RHO	1.3436E+01	7.5363E+01	8.84616+01		RHD	1.3593E+01	7 - 62 88E+ 01	8.9175E+01
н	7.1760E+02	1.31516+03	1.5559E+03		н	8.1643E+02	1.49765+03	1.7724E+03
A	1.3344E+01	1.9118E+01	2.0928E+01		A	1.42445+01	2.0429E+01	2.2499E+01
S	2.0625E+00	2.2649E+00	2.3658E+00		S	2.1463E+00	2 . 35 85E+00	2.4645E+00
Z	2.4995E+00	3.1214E+00	3.3384E+00		Z	2.6505E+00	3. 2967E+00	3.5350E+00
GAME	7.1724E-01	7.3659E-01	7.4181E-01		GAME	7.2613E-01	7.3895F-01	7.4993E-01
Ü	4.3030E+01	7.68315+00	7.708ZE+00		U	4.5949E+0L	8.1911E+00	8.2433E+00
			•					•
SPECIES		- MOLE FRACTIONS		,	> SPECIES	<u></u>	- MOLE FRACTIONS	
E	5.9993E-01	6.7963E-01	7.0045E-01	•	_ E	4 22715-01	4 '04470 04	7 17115 41
Ā	1.4843E-03	2.0750F-04	8. 1942E-05		_ E , -		6.9657E-01	7.1711E-01
A+	1.9772F -01	2.1938E-02	1.0721E-02		A+ ·	8.5198E-04	8.8351E-05	-3.0968E-05
A++	2.0041E-01	2.1736E-02 2.3716E-01	1.77858-01		A++	1.3160E-01	1.1822E-02	5.2840E-03
	4.6482E-04	6.0864E-02	1.09558-01			2.4341E-01	1.90358-01	1.2567E-01
A+++ A++++			1.077775-01		A+++	1.4295E-03	1.00166-01	l.4712E-01
			1 24705-00					
	1.1203E-09	1.9584E-04	1. 3479E- 03		A++++	1-2734E-08	9.1769E-04	4.7763E-03
ΔV	1.1203E-09 3.1071E-18	1.9584E-04 7.8552E-09	3.1164E-07		· AV	1.8781E-16	1.4038F-07	4.7763E-03 3.8214E-06
AV AVI	1.1203E-09 3.1071E-18 5.1738F-30	1.9584E-04 7.8552E-09 2.3549E-15	3.1164E-07 8.4728E-13		VA. IVA	1.8781E-16 2.4344E-27	1.4038F-07 2.2141F-13	4.7763E-03 3.8214E-06 4.8744E-11
ΔV	1.1203E-09 3.1071E-18	1.9584E-04 7.8552E-09	3.1164E-07		· AV	1.8781E-16	1.4038F-07	4.7763E-03 3.8214E-06

P1 = 2.00E+02 N/SQ-M, US1= 1.65E+04 M/SEC	P1 = 2.00E+02 N/SQ-M, US1= 1.75E+04, M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 4.0397E+03 4.5859E+04 6.4095E+04	P 4.5408E+03 5.1058F+04 7.1467E+04
T 1.0896E+02 1.7731E+02 1.9836E+02	T 1.1743F+02 1.8973F+02 2.1359F+02
RHÛ 1.3603E+01 7.6412E+01 8.8913E+01	RHO 1.3480F+01 7.5473E+01 8.7394E+01
	H 9.7641E+02 1.7900E+03 2.1218E+03
4 1.4744E+01 2.1102E+01 2.3305E+01	A 1.5808E+01 2.2515E+01 2.4851E+01
S 2.1882E+00 2.4043F+00; 2.5142E+00	S 2.2713F+00 - 2.4975E+00 2.6132E+00
2.7256E+00 3.3949E+00 3.6341E+00	Z 2.8684F+00 3.5656E+00 3.8291E+00
GAME 7.3203E-01 7.4199E-01 7.5343E-01	GAME 7.4186E-01 7.4934E-01 7.5514E-01
U 4.7380E+01 8.4481F+00 8.5276E+00	U 5.0215E+01 8.9826F+00 9.1068E+00
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E- 6.3310E-01 7.0457E-01 7.2483E-01	E- 6.5138E-01 7.1955E-01 7.3884E-01
'A 6.0581E-04 5.7734E-05 1.8185E-05	A 2.5824E-04 2.2835E-05 5.9336E-06
A+ 45' 1.0202E-01 8.6754E-03 3.5827E-03	A+ 5.3831E-02 4.4153E-03 1.5713E-03
A++ 2.6173E-01 - 1.6594F-01 1.0183E-01	A++ 2.8606E-01 1.1824E-01 6.3202E-02
A+++ 2.5409F-03 1.1904F-01 1.6139E-01	A+++ 8.4734E-03 1.5247E-01 1.7473E-01
. A++++ 4.5645E-08 1.7249E-03 8.3416E-03	A++++ 7.1317E-07 5.3068E-03. 2.1551E-02
AV. 1.6446E-15 4.7412E-07 1.2075E-05	AV 1.8222E-13 4.4538E-06 9.4235E-05
• AVI - 6.3603E-26 1.5486E-12 3.2215E-10	AVI 7.7062E-23 5.8147F-11 9.9370E-09
AVII 2.3126F-40 2.7464F-20 8.4841E-17	AVII 6.8446E-36 5.9838F-18 1.4568E-14
AVIII 2.2015E-58 2.2167E-30 1.0943E-25	AVIII 2.6587E-52 3.8370E-27 2.2054E-22
	·
·	
P1 = 2.00E+02 N/SQ-M. US1= 1.70E+04 M/SEC	P1 = 2.00E+02 N/SQ-M. US1= 1.80E+04 M/SEC
and the second of the second o	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 4.2872E+03 4.8519E+04 6.7853F+04	P 4.8012E+03 5.3572E+04 7.5086E+04
T ₄ 1.1295E+02 1.8344E+02 2.0600E+02	T 1.2225E+02 1.9627E+02 2.2122E+02
RHD 1.3562E+01 7.6108F+01 8.8239F+01	RHO 1.3386E+'01' 7.4654E+'01 8.6448E+01
H 9.2153E+02 1.6902E+03 2.0024E+03	H 1.0329E+03 1.8924E+03 2.2449E+03
A 1.5274E+01 2.1802E+01 2.4099E+01	A 1.6299E+01 2.3235E+01 2.5586E+01
S 2.2300E+00 2.4509E+00 2.5641E+00	S 2.3122E+00 2.5442E+00 2.6630E+00
Z 2.7987F+00 3.4752F+00 3.7329E+00	Z 2.9340F+00 3.6562F+00 3.9262F+00
GAME- 7.3807E-01 7.4565E-01 7.5526E-01	GAME 7.4060E-01 7.5231E-01 7.5370E-01
U. 4.8804E+01 . 8.7095E+00 8.8173E+00	U 5.1620E+01 9.2708E+00 9.4108E+00
1/2 4 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	5, 5,10200401, 5,21000400 7,41000400
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
and the second of the second o	Jecutes Trade Trade Total
E- 6.4270E-01 7.1224E-01 7.3211E-01	E- 6.5917E-01 7.2649E-01 7.4530E-01
A 4.0691E-04 3.6760E-05 1.0393E-05	A 1.5886E-04 1.3800E-05 3.3751E-06
A+ 7.5713E-02 6.2467E-03 2.3772E-03	A+ 3.7346E-02 3.0546E-03 1.0314E-03
A++ 2.7657E-01 1.4152E-01 8.0697E-02	A++ 2.8815E-01 9.6676E-02 4.8852E-02
A+++ 4.6126E-03 . 1.3686F-01 1.7091E-01	A+++ 1.5171E-02 1.6497F-01 1.7291E-01
A++++ 1.7560E-07 3.0934F-03 1.3856E-02	A++++ 2.8222F-06 8.7768E-03 3.1671E-02
AV . 1.6424E-14 1.4990E-06 3.5558E-05	AV 1.9687E-12 1.2626E-05 2.2882E-04
AVI 2.0391E-24 9.8999E-12 1.9331E-09	AVI 2.8387E-21 3.2164E-10 4.5050E-08
AVII 3.5415E-38 4.3014E-19 1.2415E-15	AVII 1.2886E-33 7.6764E-17 1.4326E-13
AVIII 2.0782E-55 9.9831E-29 7.0978E-24	AVIII 3.3464E-49 1.3266E-25 5.4059E-21

Pl = 5.	.00E+02 N/SQ-M	 US1= 2.00E+03 	M/SEC	Pl = 5	P-02/8 SC+300.	, US 1= 2.40E+0	3 H/SEC
		•					
	MOVING SHOCK	STANDING SHOCK	BEEFELTED SHUCK	1	MONTHE CHUCK	STANDING SHOCK	
P	4.7899F+01	8.4641E+C1	2.6143E+02	ρ			
•				·	6.9073F+01	1.2835F+02	3.66845+02
T.	1.2892F+01	1.6278F+01	. 2-8222E+01	<u>T</u>	1.9179E+01	2.3363F+01	3.4032F+01
RHO	3.7155F+00	5.1999E+00	9.2365E+00	RHO	3.79956+00	5. 4924F+00	1.05726+01
	1.28925+01	1.6278E+01	2.9013E+01	4	1.81815+01	2. 3453F+01	3.9481E+01
A.	3.5905E+00	4.0342F+00	4.9940F+00	A ·	4.26116+00	4.7638E+00	5.1340E+00
S	1.1054F+00	1.1059E+00	l.l195E+00	\$	1.12605+00	1.1267E+00	1.1401E+00
Z	1.0000E+00	1.0000E+00	1.0029E+00	Z	1.0000E+30	1.0003E+00	1.0196E+00
GAME	1.00005+00	9.9983E-01	9.3114E-01	GAME	9.9875F-01	9.7114F-01	7.5963E-01
Ü	4.5391F+00	3.2319F+00	3.0578F+00	u	5.49035+00	3.7854F+00	3.0741F+00
•		\		=	3.11.332.07	31 .03	3131421103
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	x		•		
SPECIFS	·	- MOLE EPACTIONS		. SPECIES		- MOLE FRACTIONS	
E-	6.5910F-09	9.2347F-07	2.8961E-03	€-	8.3611F-76	3.4577F-04	1.9199E-02
Ā	1.00000 +00	1.00005+00	9.9421E-01	Ā	9.99985-01		9.6160E-01
A+ : -	6.5910F-09	9.2347E-07	Z-8961E-03	Ã÷	8.3611F-06	3.45775-04	1.9199E-02
Ä++	7-2501F-33	3.91156-26	1.7668E-13	Ã++	1.48045-22	8.1043E-17	
A+++	1.1756F-72	2.6351E-57	4.3934E-32	A+++			1.3433E-10
			1.62238-61		3.2616F-51	1.5107F-39	8.4673E-26
A++++	0.	0.		A++++	0.	8.8504E-75	6.4287E-50
AV	0.	, 0 •	0.	AV	0.	, j o. , ,	2.0316F-81
AVI '	0.	0.	. 0.	AVI	0.	0.	3.
IIVA	0.	0.	0•	AVII	0.	0.	0.
AVIII	0.	0.	0.	IIIVA	0.	3.	· 0.
				•	,		• 1
						•	
		and the second	••				·
							•
P1 = 5	.00E+02 N/SQ-M	. US 1= 2.20E+03	M/SEC	P1 = 5.	.00E+02 N/SQ-M	US1= 2.60F+0	3 M/SEC
					18 18 18 18 18 18 18 18 18 18 18 18 18 1	grand and the	
	MOVING SHOCK	STANDING SHOCK	PEFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	PEFLECTED SHOCK
P	5.8003E+01	1-0498F+02	3.1385F+02	ρ΄ . :	B.1142E+01	1.5958E+C2	4.2374F+02
Ť	1.5416E+01	1.9660E+01	3.1580E+01	T	2.1164E+01	2.72945+01	
RHO	3.7624E+00	5.3396E+00	9.8436E+00	•	3.8336E+00	5.8323F+00	3.6036E+01
H	1.5416E+01	1.9667F+01	3.4232E+01	H .			1.1392F+01
- A	3.9262F+00				2.1190F+01	2.7963F+01	4.5071F+01
		4.4266E+00	5.0532E+00	Α .	4.5761E+00	4.9301E+00	5.2379F+00
<u>s</u> .	1.1161E+00	1.1167F+00	1.1300E+00	S	1.1353E+00	1.1362F+00	1.1505F+00
2	1.1161E+00 1.0000E+00	1.1167F+00 1.0003E+00	1.1300E+00 1.3096E+00	S	1.1353E+00 1.0001E+00	1.1362F+00 1.0025F+00	1.1505F+00 1.0322E+00
Z GAME	1.1161E+00 1.0000E+00 9.9992E-01	1.1167F+00 1.0000E+00 9.9664E-01	1.1300E+00 1.0096E+00 8.0087E-01	S Z Game	1.1353E+00 1.0001E+00 9.8934F-01	1.1362F+00 1.0025F+00 8.8833E-01	1.1505F+00
2 .	1.1161E+00 1.0000E+00	1.1167F+00 1.0003E+00	1.1300E+00 1.3096E+00	S	1.1353E+00 1.0001E+00	1.1362F+00 1.0025F+00	1.1505F+00 1.0322E+00
Z GAME	1.1161E+00 1.0000E+00 9.9992E-01	1.1167F+00 1.0000E+00 9.9664E-01	1.1300E+00 1.0096E+00 8.0087E-01	S Z Game	1.1353E+00 1.0001E+00 9.8934F-01	1.1362F+00 1.0025F+00 8.8833E-01	1.1505F+00 1.0322E+00 7.3760E-01
Z GAME	1.1161E+00 1.0000F+00 9.9992E-01 5.0154E+00	1.1167F+00 1.0000E+00 9.9664E-01	1.1300E+00 1.3096E+00 8.0087E-01 3.1195E+00	S Z Game	1.1353E+00 1.0001E+00 9.8934F-01 5.9665E+00	1.1362F+00 1.0025F+00 8.8833E-01	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00
Z GAME U SPECTES	1.1161E+00 1.0000E+00 9.9992E-01 5.0154E+90	1.1167F+00 1.0005E+00 9.9664F-01 3.5217F+00	1.1300E+00 1.0096E+00 8.0087E-01 3.1195E+00	S Z GAME USPECIES	1.1353E+00 1.0001E+00 9.8934F-01 5.9665E+00	1.1362F+00 1.0025F+00 8.8633F-01 3.9090F+00	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00
Z GAME U SPECIES E-	1.1161E+00 1.0000F+00 9.9992E-01 5.0154E+00	1.1167F+00 1.0000E+00 9.9664E-01 3.5217F+00 - MOLE FRACTIOMS 2.6477E-05	1.1300E+00 1.0096E+00 9.0087E-01 3.1195E+00	S Z GAME U SPECIES E-	1.1353E+00 1.0001E+00 9.8934E-01 5.9665E+00	1. 1362F+00 1. 0025F+00 8. 8633F-01 3. 9090F+00 - MOLE FRACTIONS 2.4636F-03	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00
Z GAME U SPECTES E- A	1.1161E+00 1.0030F+00 9.999E-01 5.0154E+00 3.6855E-07 1.0000F+00	1.1167F+00 1.0002E+00 9.9664F-01 3.5217F+00 - MOLE FRACTIOMS 2.6477E-05 9.9995F-01	1.1300E+00 1.0096E+00 9.0087E-01 3.1195E+00	S Z GAME U SPECIES E- A	1.1353E+00 1.0001E+00 9.8934F-01 5.9665E+00	1. 1362F+00 1. 0025F+00 8. 8835F-01 3. 9090F+00 - MOLE FRACTIONS 2.4636F-03 9.9507E-01	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00
Z GAME U SPECIES E-	1.1161E+00 1.0030E+03 9.9992E-01 5.0154E+90 	1.1167F+00 1.0000E+00 9.9664F-01 3.5217F+00 - MOLE FRACTIOMS 2.6477E-05 9.9995F-01 2.6477E-05	1.1300E+00 1.0096E+00 9.0087E-01 3.1195E+00	S GAME U SPECIES E- A A+	1.1353E+00 1.0001E+00 9.8934E-01 5.9665E+00	1. 1362F+00 1. 0025F+00 8. 8633F-01 3. 9090F+00 - MOLE FRACTIONS 2.4636F-03	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00
Z GAME U SPECTES E- A	1.1161E+00 1.0030F+00 9.999E-01 5.0154E+00 3.6855E-07 1.0000F+00	1.1167F+00 1.0002E+00 9.9664F-01 3.5217F+00 - MOLE FRACTIOMS 2.6477E-05 9.9995F-01	1.1300E+00 1.0096E+00 9.0087E-01 3.1195E+00	S Z GAME U SPECIES E- A	1.1353E+00 1.0001E+00 9.8934F-01 5.9665E+00	1. 1362F+00 1. 0025F+00 8. 8835F-01 3. 9090F+00 - MOLE FRACTIONS 2.4636F-03 9.9507E-01	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00 3.1172E-02 9.3766E-01 3.1172E-02
Z GAME U SPECIES E- A A+	1.1161E+00 1.0030E+03 9.9992E-01 5.0154E+90 	1.1167F+00 1.0000E+00 9.9664F-01 3.5217F+00 - MOLE FRACTIOMS 2.6477E-05 9.9995F-01 2.6477E-05	1.1300E+00 1.0096E+00 9.0087E-01 3.1195E+00 9.5256E-03 9.8095E-01 9.5256E-03 1.1207E-11	S GAME U SPECIES E- A A+	1.1353E+00 1.0001E+00 9.8934F-01 5.9665E+00 	1. 1362F+00 1. 002F+00 8. 8835F-01 3. 9090F+00 - MOLE FRACTIONS 2.4636F-03 9.9507F-01 2.4636E-03 7.2693F-14	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00 3.1172E-02 9.3766E-01 3.1172E-02 7.7945E-10
Z GAME U SPECTES E- A A+ A+	1.1161E+00 1.0000F+00 9.9992E-01 5.0154E+00 3.6855E-07 1.0000F+00 3.6855E-07 3.4538E-27 4.1879F-52	1.1167F+00 1.0002E+00 9.964F-01 3.5217F+00 - MOLE FRACTIOMS 2.6477E-05 9.9995F-01 2.6477E-05 1.1707E-20 9.2640E-48	1.1300E+00 1.0096F+00 8.0087E-01 3.1195E+00 9.5256E-03 9.8095E-01 9.5256E-03 1.1207E-11 3.7925E-28	SPECIES E- A A+ A++	1.1353E+00 1.0001E+00 9.8934F-01 5.9665E+00 9.9993E-05 9.9993E-01 9.9393F-05 8.8947E-10	1.1362F+00 1.0025F+00 0.8835F-01 3.9090F+00 - MOLF FRACTIONS 2.4636F-03 2.9507F-01 2.4636F-03 7.2603F-14 4.4565F-33	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00 3.1172E-02 9.3766E-01 3.1172E-07 7.7945E-10 4.1486E-24
Z GAME U SPECTES E- A A+ A++ A+++	1.1161E+00 1.0000F+00 9.9992E-01 5.0154E+00 3.6855E-07 1.0000F+00 3.6855E-07 3.4538E-27 4.1879F-52	1.1167F+00 1.0000E+00 9.9664F-01 3.5217F+00 	1.1300E+00 1.0096E+00 8.0087E-01 3.1195E+00 9.5256E-03 9.8095E-01 9.5256E-03 1.1207E-11 3.7925E-28 4.0911E-54	SPECIES E- A A+ A++ A+++	1.1353E+00 1.0001E+01 9.8934E-01 5.9665E+00 9.9930E-05 9.9930E-01 9.9303E-05 8.8947E-10 9.3074E-44 4.1784E-83	1.1362F+00 1.0025F+00 8.8835F-01 3.9090F+00 - MOLE FRACTIONS 2.4636F-03 2.9507F-01 2.4636E-03 7.2603F-14 4.4565F-33 1.1832E-64	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00 3.1172E-02 9.3766E-01 3.1172E-02 7.7945F-10 4.1486F-24 1.1848E-46
Z GAME U SPECIES E-A A+A+++A+++	1.1161E+00 1.0000F+00 9.9992E-01 5.0154E+00 	1.1167F+00 1.0002E+00 9.9664F-01 3.5217F+00 - MOLE FRACTIOMS 2.6477E-05 9.9995F-01 2.6477E-05 1.1707E-20 0.2640E-48 0.	1.1300E+00 1.0096E+00 8.0087E-01 3.1195E+00 	SPECIES E- A A+ A++ A+++ A+++ A+++	1.1353E+00 1.0001E+00 9.8934F-01 5.9665E+00 9.9930E-05 9.9930E-01 9.039F-05 8.8947E-10 9.3074E-44 4.1784E-83 0.	1.1362F+00 1.002F+00 8.8835F-01 3.9090F+00 - MOLE FRACTIONS 2.4636F-03 9.9507E-01 2.4636E-03 7.2603F-14 4.4565F-33 1.1832E-64 0.	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00 3.1172E-02 9.3766E-01 3.1172E-02 7.7945E-10 4.1486E-24 1.1848E-46 9.7142E-77
Z GAME U SPECTES E-AA+++A+++A4+++A4+++AVI	1.1161E+00 1.0000F+00 9.9992E-01 5.0154E+00 3.6855E-07 1.0000F+00 3.6855E-07 3.4538E-27 4.1879F-52 0.	1.1167F+00 1.0002E+00 9.9664F-01 3.5217F+00 - MOLE FRACTIOMS 2.6477E-05 9.9995F-01 2.6477E-05 1.1797E-20 9.2640E-48 0.0	1.1300E+00 1.0096F+00 8.0087E-01 3.1195E+00 9.5256E-03 9.8095E-01 9.5256E-03 1.1207E-11 3.7925E-28 4.0911E-54 1.3292E-88 0.	S Z GAME U SPECIES E-A A+A++A+++A+++AV	1.1353E+00 1.0001E+00 9.8934F-01 5.9665E+00 9.993E-05 9.9930E-01 9.9393F-05 8.8947E-10 9.3074E-44 4.1784E-93 0.	1.1362F+00 1.0025F+00 8.8835F-01 3.9090F+00 - MOLE FRACTIONS 2.4636F-03 2.9507E-01 2.4636E-03 7.2603F-14 4.4565F-33 1.1832E-64 0.	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00 3.1172E-02 9.3766E-01 3.1172E-02 7.7945F-10 4.1486F-24 1.1848E-46 9.7142E-77 0.
SPECIFS E- A A+ A++ A+++ AV AVI AVII	1.1161E+00 1.0000F+00 9.9992E-01 5.0154E+00 3.6855E-07 1.0000F+00 3.6855E-07 3.6855E-07 3.6556-07 3.6538E-27 4.1879F-52 0.	1.1167F+00 1.00002E+00 9.9664F-01 3.5217F+00 - MOLE FRACTIOMS 2.6477E-05 9.9995F-01 2.6477E-05 1.1707E-20 9.2640E-49 0. 0.	1.1300E+00 1.0096E+00 8.0087E-01 3.1195E+00 9.5256E-03 9.8095E-01 9.5256E-03 1.1207E-11 3.7925E-28 4.0911E-54 1.3292E-88 0.	SPECIES E- A A+ A++ A+++ AV AVI AVII	1.1353E+00 1.0001E+00 9.8934E-01 5.9665E+00 9.993E-05 9.993E-01 9.9303E-05 8.8947E-19 9.3074E-44 4.1784E-93 0.	1.1362F+00 1.0025F+00 8.8835F-01 3.9090F+00 - MOLF FRACTIONS 2.4636F-03 9.9507F-01 2.4636E-03 7.2603F-14 4.4565F-33 1.1832E-64 0.00	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00 3.1172E-02 9.3766E-01 3.1172E-02 7.7945F-10 4.1486F-24 1.1848E-46 9.7142E-77 0.
Z GAME U SPECTES E-AA+++A+++A4+++A4+++AVI	1.1161E+00 1.0000F+00 9.9992E-01 5.0154E+00 	1.1167F+00 1.0002E+00 9.9664F-01 3.5217F+00 - MOLE FRACTIOMS 2.6477E-05 9.9995F-01 2.6477E-05 1.1797E-20 9.2640E-48 0.0	1.1300E+00 1.0096F+00 8.0087E-01 3.1195E+00 9.5256E-03 9.8095E-01 9.5256E-03 1.1207E-11 3.7925E-28 4.0911E-54 1.3292E-88 0.	S Z GAME U SPECIES E-A A+A++A+++A+++AV	1.1353E+00 1.0001E+00 9.8934F-01 5.9665E+00 9.993E-05 9.9930E-01 9.9393F-05 8.8947E-10 9.3074E-44 4.1784E-93 0.	1.1362F+00 1.0025F+00 8.8835F-01 3.9090F+00 - MOLE FRACTIONS 2.4636F-03 2.9507E-01 2.4636E-03 7.2603F-14 4.4565F-33 1.1832E-64 0.	1.1505F+00 1.0322E+00 7.3760E-01 3.0204F+00 3.1172E-02 9.3766E-01 3.1172E-02 7.7945F-10 4.1486F-24 1.1848E-46 9.7142E-77 0.

	2*00E+05 W/ 20-m	• 021= 5*80E+0	3 ~/356	PI =	2.00F+0% W\20-W	, US1= 3.20E+0	3 M/SEC
							•.
•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	9.4389F+01	2.0541E+02	4.8820E+02	p	1.2594E+02	33.4114F+02	6.7843F+02
Ť	2.4276F+01	3.0935E+C1	3.7795E+01	1	2.97816+01	3.6255E+01	4.1134E+01
RHC	3.8854F+00	6.5775F+00	- 1.2336F+01	หมา -	- 4.1059F+00	9.06495+00	1.51985+01
H	2.44626+01	3.3540F+01	5.1111E+01	H	3.1937F+01	4.6926E+01	6.5565F+0l
4	4.80406+00	4.9932F+00	5.3561E+00	Α '	4.92125+00	5.2401F+00	5.6382E+00
\$	1.1440F+00	1.14565+00	1.1615E+00	\$	1.16075+00	1.1653E+00	1.1850E+00
7.	1.00075+00	1.00958.+00	: 1.0471E+00	Z	1.0079F+00	. 1.03806+00	1.0853E+00
GAME	9.50075-01	7.9836E-01	7.2483E-01	GA™E	9.0685E-01	7.2964E-01	7.1211E-01
IJ.	6.4569F+90	3.8005E+00	2.9638E+00	U	7.55795+03	3.4864E+00	2.8952E+00
			•		1		
SPECIE	s	- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	,
E-	6.9201E-04	9.3850F-03	. 4.5002F-02	E	7.81505-03	3.66195-02	7.8559E-02
Δ	9.9862F-01	9.8123E-01	9.1000E-01	À	9.8437E-01		8.4288E-01
Ä+	6.92015-04	9.3850E-03	4.5002E-02	Ã+	7.8150F-03	3.66195-02	7.8559E-02
4++	7.0428F-16	9.02025-12	3.0598F-09	A++	3.09235-12	1.1769F-09	2.7518E-08
A+++	1.73268-37	1.4445F-28	9.555RE-23	4+++	1.3460F-29	8.79976-24	1.2040E-20
4+++	1.49915-71	5.6465E=55	3.1382F-44	A++++	4.81965-57	4.0054E-46	
AV .	0.	. 4.7280E-90	5.7717E-73	AV	• 0•	5.8889E-76	2.0324F-66
AVI	o.	o.	0.	AVI	0.	0.	0.
AVII	0. •	o.	0.	AVII .	. 0.	0.	o. ' '
AVIII	0.	. 0.	o.	111VA	0.	0.	9.
							•
						•	
P1 =	5.00E+02 N/SO-M	US1= 3.00E+0	3 M/SFC	Pl =	5.00E+02 1/50-4	. US 1= 3.40F+0	3 M/SFC
		,		•			
	MUNING SHOCK	STANDING SHOCK	REFLECTED SHOCK	•	MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 1.09075+02	STANDING SHCCK 2.6424F+02	REFLECTED SHOCK 5.6893F+02	D .	MOVING SHUCK 1.4495F+02	STANDING SHOCK	REFLECTED SHOCK 8.2173F+02
	1.09375+02	2.6424F+02	5.6893F+02	o T			8.2173F+02
τ .	1.09375+02 2.7233E+01	2.6424F+02 3.3821E+01	5.6893F+02 3.9462E+01	-	1.4495F+02	4.3079E+02	8.2173F+02 4.2826E+01.
T . RHO	1.0937F+02 2.7233F+01 3.9936E+00	2.6424F+02 3.3821F+01 7.6474F+00	5.6893F+02 3.9462E+01 1.3541E+01	Ť	1.4495F+02 3.1875F+01 4.4775F+00	4.3079E+02 3.8422E+01 1.0821F+01	8.2173F+02 4.2826E+01. 1.7303E+01
T . T RHO H	1.09375+02 2.72335+01 3.99365+00 2.80215+01	2.6424F+02 3.3821E+01 7.6474E+00 3.9837E+01	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01	T RHO H	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01	4.3079E+02 3.8422E+01 1.0821E+01 5.4785E+01	8.2173F+02 4.2826E+01 1.7303F+01 7.4263E+01
T . RHO H	1.0907F+02 2.7233F+01 3.9936E+00 2.8021F+01 4.8894E+00	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00	T RHO H A	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00	4.3079E+02 3.8422E+01 1.0821E+01 5.4785E+01 5.4029E+00	8.2173F+02 4.2826E+01 1.7303E+01 7.4263E+01 5.8030E+00
T RHO H 4 S	1.09075+02 2.72335+01 3.99365+00 2.80215+01 4.88945+00 1.15245+00	2.6424F+02 3.3821F+01 7.6474F+00 3.9837E+01 5.0972F+00 1.1552F+00	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00	T RHO H A S	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.1691F+00	4.3079E+02 3.8422E+01 1.0821E+01 5.4785E+01 5.4029E+00 1.1761E+00	8.2173F+02 4.2826E+01 1.7303F+01 7.4263E+01 5.8030E+00 1.1979F+00
T RHO H A S	1.0907F+02 2.7233F+01 3.9936E+00 2.8021F+01 4.8894E+00 1.1524F+00 1.0029E+00	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.1552E+00 1.0216E+00	5.6893F+02 3.9462E+01 1.3541F+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00	T RHU H A S	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.1691F+00 1.0156F+00	4.3079E+02 3.8422F+01 1.0821F+01 5.4785F+01 5.4029F+00 1.1761E+00 1.0578F+00	8.2173F+02 4.2826E+01 1.7303E+01 7.4263E+01 5.8030E+00 1.1979F+00 1.1089E+00
T RHO H A S Z GAME	1.09775+02 2.72375+01 3.99365+00 2.80215+01 4.88945+00 1.15245+00 1.00295+00 8.75305-01	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.1552F+00 1.0216E+00 7.5194F-01	5.6893F+02 3.9462E+01 1.3541E+01 5.7877E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01	T RHO H A S Z GAME	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.1691F+00 1.0156F+00 7.6451F-01	4.3079E+02 3.8422E+01 1.0821F+01 5.4785F+01 5.4029F+00 1.1761E+00 1.0578F+00 7.1925F-01	8.2173F+02 4.2826F+01 1.7303F+01 7.4263F+01 5.8030F+00 1.1979F+00 1.1089E+00 7.091F-01
T RHO H A S	1.0907F+02 2.7233F+01 3.9936E+00 2.8021F+01 4.8894E+00 1.1524F+00 1.0029E+00	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.1552E+00 1.0216E+00	5.6893F+02 3.9462E+01 1.3541F+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00	T RHU H A S	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.1691F+00 1.0156F+00	4.3079E+02 3.8422F+01 1.0821F+01 5.4785F+01 5.4029F+00 1.1761E+00 1.0578F+00	8.2173F+02 4.2826E+01 1.7303E+01 7.4263E+01 5.8030E+00 1.1979F+00 1.1089E+00
T . RHO H A S Z GAME U	1.09775+02 2.72336+01 3.99366+00 2.80216+01 4.88945+00 1.15246+00 1.00296+30 8.75306-01 6.97336+00	2.6424F+02 3.3821E+01 7.6474F+00 3.9837F+01 5.0972F+00 1.1552F+00 1.0216F+00 7.51194F-01 3.6302F+00	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+00	T RHO H A S Z GAME U	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.0156F+00 7.6691F+01 8.1956E+00	4.3079[+02 3.8422F+01 1.0821F+01 5.4785F+01 5.4029F+00 1.1761E+00 1.0578F+00 7.1925F-01 3.3749E+00	8.2173F+02 4.2826E+01 1.7303F+01 7.4263E+01 5.8030F+00 1.1979F+00 1.1089E+00 7.0911E-01 2.8700F+00
T RHO H A S Z GAME	1.09775+02 2.72336+01 3.99366+00 2.80216+01 4.88945+00 1.15246+00 1.00296+30 8.75306-01 6.97336+00	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.1552F+00 1.0216E+00 7.5194F-01	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+00	T RHO H A S Z GAME	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.0156F+00 7.6691F+01 8.1956E+00	4.3079E+02 3.8422E+01 1.0821F+01 5.4785F+01 5.4029F+00 1.1761E+00 1.0578F+00 7.1925F-01	8.2173F+02 4.2826E+01 1.7303F+01 7.4263E+01 5.8030F+00 1.1979F+00 1.1089E+00 7.0911E-01 2.8700F+00
T RHO H S S Z GAME U SPECIS	1.09775+02 2.72336+01 3.09266+00 2.80216+01 4.88945+00 1.15246+00 1.00296+30 8.75306-01 6.07336+00	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.0216F+00 7.5194F-01 3.6302F+00	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+07	T RHO H A S Z GAME U SPECIFS	1.4495F+02 3.1875F+01 4.4775F+01 3.0193F+01 4.9749F+00 1.1691F+00 7.6451F-01 8.1956E+00	4.3079[+02 3.8422F+01 1.0821F+01 5.4785F+01 5.4029F+00 1.1761E+00 1.0578F+00 7.1825F-01 3.3749E+00	8.2173F+02 4.2826E+01 1.7303F+01 7.4263E+01 5.8030E+00 1.1979F+00 1.1089E+00 7.0911E-01 2.8700E+00
T RHO H A S Z GAME U	1.0977F+02 2.7233F+01 3.9926F+00 2.8021F+01 4.8894F+00 1.1524F+00 1.0029E+00 8.7530E-01 6.9733F+00	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.1552F+00 1.0216F+00 7.5194F-01 3.6307F+00 - MOLE FPACTIONS 2.1170F-02 9.5764F-01	5.6893F+02 3.9462E+01 1.3541F+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+00	T RHO H A S Z GAME U SPECIF!	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.0749F+00 1.1691F+00 7.6451F-01 8.1056E+00	4.30 79E+02 3.8422E+01 1.082E+01 5.4785F+01 5.4785F+01 5.4029F+00 1.1761E+00 7.1925E-01 3.3749E+00 - MOLE FPACTIONS 5.4619E-02 8.9076F-01	8.2173F+02 4.2826F+01 1.7303F+01 7.4263F+01 5.8030F+00 1.1979F+00 1.1089E+00 7.0911E-01 2.8700F+00
T RHO H S S Z GAME U SPECIS	1.09775+02 2.72336+01 3.09266+00 2.80216+01 4.88945+00 1.15246+00 1.00296+30 8.75306-01 6.07336+00	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.1552F+00 1.0216F+00 7.5194F-01 3.6307F+00 - MOLE FPACTIONS 2.1170F-02 9.5764F-01	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+07	T RHO H A S Z GAME U SPECIFS	1.4495F+02 3.1875F+01 4.4775F+01 3.0193F+01 4.9749F+00 1.1691F+00 7.6451F-01 8.1956E+00	4.3079[+02 3.8422F+01 1.0821F+01 5.4785F+01 5.4029F+00 1.1761E+00 1.0578F+00 7.1825F-01 3.3749E+00	8.2173F+02 4.2826E+01 1.7303F+01 7.4263E+01 5.8030E+00 1.1979F+00 1.1089E+00 7.0911E-01 2.8700E+00
T RHO H S S Z GAME U SPECIES	1.0977F+02 2.7233F+01 3.9926F+00 2.8021F+01 4.8894F+00 1.1524F+00 1.0029E+00 8.7530E-01 6.9733F+00	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.1552F+00 1.0216F+00 7.5194F-01 3.6307F+00 - MPLF FPACTIUMS 2.1179F-02 9.5764F-01 2.1179F-02	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+00	T RHO H A S Z GAME U SPECIF!	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.0749F+00 1.1691F+00 7.6451F-01 8.1056E+00	4.30 79E+02 3.8422E+01 1.082E+01 5.4785F+01 5.4785F+01 5.4029F+00 1.1761E+00 7.1925E-01 3.3749E+00 - MOLE FPACTIONS 5.4619E-02 8.9076F-01	8.2173Fe02 4.2826E+01 1.7303Fe01 7.4263E+01 5.8030Fe00 1.1979F+00 1.1089E+00 7.0911F-01 2.8700F+00
T NHO H A S Z GAME U SPECIES	1.09775+02 2.72336+01 3.99266+00 2.80216+01 4.88945+00 1.15246+00 1.00296+30 8.75306-01 6.97336+00	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.0216F+00 7.5194F-01 3.6307F+00 - MPLF FPACTIUMS 2.1179F-02 9.5764F-01 2.1179F-02 1.5083E-10	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+07	T RHO H A S Z GAME U SPECIFS	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.1691F+00 7.6451F+01 8.1956E+00 7.6451F-01 1.5409F-02 9.6918F-01 1.5409F-02 3.4660F-12	4.3079E+02 3.8422F+01 1.082IF+01 5.4785F+01 5.4785F+01 5.4029F+00 1.176IE+00 7.1825F-01 3.3749F+00 - MOLE FPACTIONS 5.4619E-02 8.9076F-01 5.4619E-02 5.6352E-09	8.2173F+02 4.2826E+01 1.7303F+01 7.4263E+01 5.8030E+00 1.1979F+00 1.1089E+00 7.0911F-01 2.8700F+00 9.8200E-02 8.3360E-01 9.8200E-02 7.0711F-08
T RHO H A S C GAME U SPECIES A A + A + A + + A + + A + + A + + A + + A + + A + + A + + A + + A	1.09775+02 2.72375+01 3.9926F+00 2.8021F+01 4.88945+00 1.1524F+00 1.0029E+J0 8.7530E-01 6.9733F+00 5 	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.0216E+90 7.5194F-01 3.6307F+00 - MOLF FPACTIUMS 2.1179F-02 9.5764F-01 2.1179F-02 1.5093E-10 9.086F-26	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+00 6.0768E-02 8.7846F-01 6.0769E-02 9.7542E-09 1.1521E-21	T RHO H A S Z GAME U SPECIFS	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.0749F+00 1.1691F+00 7.6451F-01 8.1056E+00 1.5409F-02 9.6918F-01 1.5409F-02 3.40605-11 2.5557F-27	4.30 79E+02 3.8422E+01 1.082E+01 5.4785F+01 5.4785F+01 5.4029F+00 1.1761E+00 7.1825E-01 3.3749E+00 - MOLE FPACTIONS 5.4619E-02 8.9076F-01 5.4619E-02 6.6352E-09 2.9875F-22	8.2173F+02 4.2826F+01 1.7303F+01 7.4263F+01 5.8030F+00 1.1979F+00 1.1089F+00 7.0911F-01 2.8700F+00 9.8200F-02 8.0360E-01 9.8200E-02 7.0771F-08 1.0477F-19
T RHO H A S Z GAME U SPECISS	1.09775+02 2.72336+01 3.9936+01 3.9936+01 4.88945+00 1.1524F+00 1.00296+30 8.7530E-01 6.9733F+00 3.9420E-01 2.8975E-03 9.9420E-01 2.8975E-03 9.8147F-14 7.6791E-33 5.9526F-63	2.6424F+02 3.382IE+01 7.6474F+00 3.9837F+01 5.0972F+00 1.0216F+00 7.5194F-01 3.6302F+00 - MOLE FPACTIONS 2.1179F-02 9.5764F-01 2.1179F-02 1.5983E-10 0.0986F-26 7.7559E-50	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+02 6.0768E-02 8.7846E-01 6.0769F-02 9.7542E-09 1.1521E-21 4.1608F-42	T RHO H A S Z GAME U SPECIFS E- A + A++ A+++ A+++ A+++ A+++ A+++ A++	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.0156F+00 7.6451F-01 8.1956E+00 1.5409F-02 9.6918F-01 1.5409F-02 3.4060F-11 2.5557F-27 8.2093F-53	4.3079[+02 3.8422F+01 1.0821F+01 5.4785F+01 5.4029F+00 1.1761E+00 1.0578F+00 7.1825F-01 3.3749E+00 - MOLE FPACTIONS 5.4619E-02 8.9076F-01 5.4619E-02 2.9875F-22 2.9875F-22 2.9875F-22	8.2173F+02 4.2826E+01 1.7303F+01 7.4263E+01 5.8030E+00 1.1979F+00 1.1089E+00 7.0911E-01 2.8700E+00 9.8200E-02 9.3200E-02 9.3711E-08 1.0477E-19 1.9571E-38
T RHO H A S Z GAME U SPECIES E A A + + + + + + + + + + + + + + + + +	1.09775+02 2.72336+01 3.9926E+00 2.8021F+01 4.88945+00 1.1524F+00 1.0029E+30 8.7530E-01 6.0733F+00 8.7530E-01 2.8975E-03 9.9420E-01 2.8975E-03 0.8147E-14 7.6791E-33 5.9526F-62	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.0216F+00 7.5194F-01 3.6307F+00 MDLF FPACTIUMS 2.1179F-02 9.5764F-01 2.1179F-02 1.5083E-10 9.0986F-26 7.7558E-50 6.5633F-82	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+07 6.0768E-02 8.7846E-01 6.0769E-02 9.7542E-09 1.1521E-21 4.1608E-42 1.8316E-69	T RHO H A S T T T T T T T T T T T T T T T T T T	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.1691F+00 7.6451F+01 8.1956E+00 7.6451F-01 1.5409F-02 9.6918F-01 1.5409F-02 3.4060F-11 2.5557F-27 8.2093F-53 1.1425F-36	4.30 79E+02 3.8422F+01 1.082IF+01 5.4785F+01 5.4029F+00 1.176IE+00 7.1825F-01 3.3749E+00 MOLE FPACTIONS 5.4619E-02 8.9076F-01 5.4619E-02 9.875F-22 2.8512F-43 1.8607F-71	8.2173F+02 4.2826E+01 1.7303F+01 7.4263E+01 5.8030E+00 1.1979F+00 1.1089E+00 7.0911F-01 2.8700F+00 9.8200E+02 9.3360E+01 9.8200E+02 7.0771F-08 1.0477F-19 1.9571E-38 1.4555E-63
T RHO H A S Z GAME U SPECIES A A + + A + + + + A V I	1.09775+02 2.72335+01 3.99265+00 2.80215+01 4.88945+00 1.15245+00 1.00295+00 8.75305-01 6.97335+00 5 2.89755-03 9.94205-01 2.89755-03 9.1475-14 7.67715-33 5.95265-63	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.1552F+00 1.0216F+00 7.5194F-01 3.6307F+00 - MOLF FPACTIUMS 2.1179F-02 9.5764F-01 2.1179F-02 1.5083E-10 9.0086F-26 7.7559F-50 6.5433F-82 3.	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+00 6.0768E-02 8.7846F-01 6.0769F-02 9.7542E-09 1.1521E-21 4.1608F-42 1.8316F-69 0.	T RHO H A S Z GAME U SPECIFS E A A + A + + A + + A V AVI	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.1691F+00 7.6451F-01 8.1956E+00 1.5409F-02 9.6918F-01 1.5409F-02 3.4060F-11 2.5557F-27 8.2093F-53 1.1425E-36 0.	4.30 79E+02 3.8422E+01 1.082E+01 5.4785F+01 5.4785F+01 5.4029F+00 1.1761E+00 7.1825E-01 3.3749E+00 - MOLE FPACTIONS 5.4619E-02 8.9076F-01 5.4619E-02 5.6352E-09 2.9875F-72 2.9875F-71 7.	8.2173F+02 4.2826F+01 1.7303F+01 7.4263F+01 5.8030F+00 1.1979F+00 1.1089F+00 7.0911F-01 2.8700F+00 9.8200F-02 9.3360E-01 9.8200E-02 7.0771F-08 1.0477F-19 1.9571E-38 1.4555E-63 0.
T RHD H A S Z GAME U SPECISS A+ A+++ A+++ AV AVI AVII	1.09775+02 2.72336+01 3.99266+00 2.80216+01 4.88945+00 1.15246+00 8.75306-01 6.97336+00 2.8975E-03 9.9420E-01 2.8975E-03 9.9420E-01 7.6791E-33 5.965266-62 0.0	2.6424F+02 3.382IE+01 7.6474F+00 3.9837F+01 5.0972F+00 1.0216F+00 7.5194F-01 3.6303F+00 - MPLF FPACTIUMS 2.1179F-02 9.5764F-01 2.1179F-02 1.5083E-10 9.086F-26 7.7559E-50 6.5433F-82 3.0	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+07 6.0768E-02 8.7846E-01 6.0769E-02 9.7542E-09 1.1521E-21 4.1608F-42 1.8316F-69 0.	T RHO H A S Z Z GAME U SPECIFS E- A A + A + + A + + A V A V I A V I I	1.4495F+02 3.1875F+01 4.4775F+01 4.4775F+01 3.0193F+01 4.9749F+00 1.10156F+00 7.6451F-01 8.1956E+00 1.5409F-02 9.6918F-01 1.5409F-02 3.4060F-11 2.5557F-27 8.2093F-53 1.1425E-36 0.	4.3079[+02 3.8422F+01 1.0821F+01 5.4785F+01 5.4029F+00 1.1761E+00 1.0578F+00 7.1825F-01 3.3749E+00 - MOLE FPACTIONS 5.4619E-02 8.9076F-01 5.4619E-02 5.6352E-09 2.9875F-22 2.9812F-43 1.8600F-71 2.0	8.2173F+02 4.2826E+01 1.7303F+01 7.4263E+01 5.8030F+00 1.1979F+00 1.1089E+00 7.0911F-01 2.8700F+00 9.8200F-02 8.0360E-01 9.8200E-02 7.0771F-08 1.0477F-19 1.9571E-38 1.4555E-63 0.
T RHO H A S Z GAME UI SPECIES A A + + A + + + + A V I	1.09775+02 2.72335+01 3.99265+00 2.80215+01 4.88945+00 1.15245+00 1.00295+00 8.75305-01 6.97335+00 5 2.89755-03 9.94205-01 2.89755-03 9.1475-14 7.67715-33 5.95265-63	2.6424F+02 3.3821E+01 7.6474F+00 3.9837E+01 5.0972F+00 1.1552F+00 1.0216F+00 7.5194F-01 3.6307F+00 - MOLF FPACTIUMS 2.1179F-02 9.5764F-01 2.1179F-02 1.5083E-10 9.0086F-26 7.7559F-50 6.5433F-82 3.	5.6893F+02 3.9462E+01 1.3541E+01 5.7872E+01 5.4887F+00 1.1730F+00 1.0647E+00 7.1702E-01 2.9345E+00 6.0768E-02 8.7846F-01 6.0769F-02 9.7542E-09 1.1521E-21 4.1608F-42 1.8316F-69 0.	T RHO H A S Z GAME U SPECIFS E A A + A + + A + + A V AVI	1.4495F+02 3.1875F+01 4.4775F+00 3.0193F+01 4.9749F+00 1.1691F+00 7.6451F-01 8.1956E+00 1.5409F-02 9.6918F-01 1.5409F-02 3.4060F-11 2.5557F-27 8.2093F-53 1.1425E-36 0.	4.30 79E+02 3.8422E+01 1.082E+01 5.4785F+01 5.4785F+01 5.4029F+00 1.1761E+00 7.1825E-01 3.3749E+00 - MOLE FPACTIONS 5.4619E-02 8.9076F-01 5.4619E-02 5.6352E-09 2.9875F-72 2.9875F-71 7.	8.2173F+02 4.2826F+01 1.7303F+01 7.4263F+01 5.8030F+00 1.1979F+00 1.1089F+00 7.0911F-01 2.8700F+00 9.8200F-02 9.3360E-01 9.8200E-02 7.0771F-08 1.0477F-19 1.9571E-38 1.4555E-63 0.

Pl =	5.00E+02 N/SQ-M	021= 3.60E+03	MASEC	Pl =	5.00E+02 N/SQ-M	. US1= 4.00E+0	3 M/SEC
		STANDING SHOCK -					REFLECTED SHOCK
. P	1.6546E+02	5.5670E+02	9.9329E+02	P	2.1083E+02	8.5746E+02	1.4251E+03
To 3	3.3607E+01	4.0357E+01	4.4472E+01	₹.	3.6413F+01	4.3866E+01	4.7664E+01
RHO -	4.8004E+00	1.2775E+01	1.9685E+01	RHO	5.5122F+00	1.7303E+01	2.5086E+01
н	4.0719F+01	6.3125E+01	8.3634E+01	H	5.0564E+01	8.1471E+01	1.04315+02
A	5.0518E+00	5.5709E+00	5.9747F+00	A	5.2377E+00	5.9193E+00	6.3347E+00
S	1.17796+00	1.1877E+00	1.2114F+00	ŝ	1.1967E+00	1.2132F+00	1.2407E+00
ž	1.0256E+00	1.07978+00	1.1346F+00	ź	1.0504E+00	1.12976+00	1.1919E+00
GAME	7.4043E-01	7.1221E-01	7.0744E-01	GAME	7.17245-01	7.0705E-01	7.0636E-01
U	8.8427F+00	3.3127E+00	2.8583E+00	n,	1.0154E+01	3.2226E+00	2.8627E+00
0	5.64211400	3, 3,27,000	2103032400	, U ,	1.01346401	3.22206+00	2.00216400
		MOLE FRACTIONS -		SPECIE:		- MOLE FRACTIONS	
SPECIF	5	HULE PRACTIONS		SPECIE		- MULE PRACTIONS	
E-	2.4968F-02	7.3851F-02	1.1866E-01	€-	4.79838-02	1.1481F-01	1.6099E-01
A .	9.5006E-01	8.5230E-01	7.6267E-01	Α '	9.0403E-01	7.70386-01	6.7802E-01
A+,	2.4968F-02	7.3851F-02	1.1866E-01	Δ+	4.7983E-02	1.14816-01	1.6099E-01
A++.	1.9380E-13	1.9318E-08	1-6340E-07	A++	2.1901E-09	1.3085F-07	6.8761E-07
A+++	1.1648F-25	4.9626E-21	7.2065E-19	A+++	2.4535E-23	4.0596E-19	2.0488E-17
A++++	9.3977E-50	5.8018E-41	7.2790E-37	A+++	1.7510E-45	2.2823E-37	3.9476E-34
AV ,	7.4645E-82	1.1442E-67	4.7007E-61	AV	3.5582E-75	6.3237E-62	1.0639E-56
I.VA	0.	0.	0.	IVA	0.	0.32311.02	6.2785E-86
			0.				
AVII	0.). 0.	0.	IIVA	0.	0.	0.
AVIII	0.	•	•	11174	. 0.	0.	0.
	•						
•							
*	1						
Pl =	5.00F+02 M/SQ-4.	US1= 3.80F+03	M/SEC	. P1 = ¹	5.00E+02 N/SQ-M	. US1= 4.20E+0	3 M/SEC
		•	•	•		•	
	MOVING SHOCK	STANDING SHOCK I	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ.	1.8745E+02	6.9532E+02	1.1944E+03	P	2.3551E+02	1.0408E+03	1.6853E+03
T	3.5095E+01	4.2159E+01	4.6084F+01	T	3.7609F+01	4-5488F+01	4.9215E+01
RHO '	5.14926+00	1.494?E+01	2.2298F+01	RHC	5.8814E+00	1.9775F+01	2.8001E+01
H	4.5512F+01	7.2024E+01	9.3668F+01	H	5.5866E+01	9. 1377E+01	1.1553E+02
Δ	5.1415E+00	5.7434E+00	6.1524E+00	Ä	5.3373E+00	6.0966F+00	6.5209F+00
s	1.18716+00	1.2001F+00	1.22575+00	ŝ	1.2068E+00	1.22715+00	
							1.2565E+00
2	1.0373E+00	1.1038F+00	1.1624E+00	Z	1.0647E+00	1.1571E+00	1.2229E+00
GAME	7.2615E-01	7.0886F-01	7.0661E-01	GAME	7.1141F-01	7.0616F-01	7.0650E-01
U .	9.49776+00	3.2669E+00	2.8564E+00	. u	1.0808E+01	3.2070E+00	2.8762E+00
SPECTE	s	MOLE FRACTIONS -		SPECIES		- MOLE FRACTIONS	
E	3.5953F-02	9.4026E-02	1.3970E-01	F	6.0793F-02	1.3577E-01	1.8230E-01
Ā	9.2909E-01	8.1194E-01	7.2060E-01	A	8.7841E-01	7.2846F-01	6.35416-01
		9.40286-02		A+ '			
Δ+	3.5953E-02		1.3970F-01		6.0793E-02	1.35776-01	1.8229E-01
A++	7.4089E-10	5.3992E-08	3.4710E-07	A++	5.4432E-09	2.8364E-07	1.2864E-06
A+++	2.2518E-24	5.2547F-20	4.1506E-18	A+++	1.8853E-22	2.4594F-18	8.9764E-17
A++++	2.2931F-47	4.9306E-39	1.9726E-35	A++++ .	8.1227E-44	6.9160E-36	6.6340E-33
AV	4.9546E-78	1.4511F-64	9.4667E-59	AV	2.0101E-72	1.6376E-59	1.1670E-54
AVT	. 0.	^					
		0.	1.6426E-88	IVA	0.	1.0782E-89	1.9180F-82
AVII		9.	1.0420E-88 0.	AVII	0.	1.0/8/6-89	
AVIII	0.						0. 0.

P1	= 5.00F+02	N/50-	US 1= 4.40E+0	O3 M/SEC		P1 =	5.00E+02 N/SQ-M	. US1= 4.80E+0	3 M/SEC
•	MOVING	SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
٥		1E+02	1. 2482E+03	1.9742E+03		P	3.1722E+02	1.73596+03	2.6492E+03
T		3F+01	4.7055E+01	5.0733E+01		7			
RHO		7E+00	2. 2366E+01	3.1004E+01			4.0726E+01	5.00725+01	5.3775E+01
H						RHD .	6.9920F+00	2.7782E+01	3.7196E+01
		25+01	1.0179E+02	1.2719E+02		H	7.3283E+01	1.2406E+02	1.5249E+02
		2F+00	6.2764E+00	6.7094F+00		` <u>A</u>	5.6473F+00	6.6436F+00	7.1037E+00
5		3E+00	1.24185+00	1.2726E+00		S	1.2396E+00	1.2729E+00	1.3074E+00
2		25+00	1.18605+30	1.2551E+00		2	1.1140E+00	1.2479E+00	1.3244E+00
GAME			7.0587E-01	7.0694E-01	,	GAME	7.02958-01	7.0640E-01	7.0853E-01
	. 1.146	CE+01	3.2001E+00	2.8777F+00		U	1.2752E+01	3.2053E+00	2.9404E+00
3									
SPEC	1FS		- MOLE FRACTIONS			SPECIE	s	- MOLE FRACTIONS	
E-	7.42	13E-02	1.56848-01	2.0327E-01		E-	1.0234E-01	1.9862E-01	2.4496E-01
·A	8.51	57F-01	6.8632F-01	5.9347E-01		Ā	7.9532E-01	6.0275E-01	5.1008E-01
A+		13E-02		2.0326E-01		Ä+	1.0234E-01	1.9862F-01	2.4495E-01
4+4		25E-08	5.67395-07	2.2845E-06		A++	4.4158E-08	1.8981F-06	6.5704E-06
A+++		56E-21	1.24896-17	3.4808E-16		A+++ -	2.0990E-20	2.1473E-16	4.2742E-15
A++++		53E-42	1.5115F-34	9.5315E-32	· ·	A++++	5.3032E-40	3.2610E-32	9.6363E-30
AV		735-70	2.48166-57			AV	2.5455E-66	1.4351E-53	1.4121E-49
AVI	0.		2.0894F-86.			IVA	0.	7.2656E-81	5.5234E-75
AVII	0.		0.	0.		AVII.	ŏ.	0.	0.
AVIII	ŏ.		´ 0.	Ŏ.		BIIVA	0.	0.	0.
			•	."			Ÿ•	0.	0.
					•				•
					-	•		•	
- }			•	•					
	- 5 005.03		1151- / 405-/				.		
, ,	= 5.00F+02	M/ 3U-7	US1= 4.60E+0	73 M/SEC	•	P1 = 1	5.00E+02 N/SQ-M	. US1= 5.00E+0	3 M/SEC
			. ,			•			
		SHOCK		REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
: P		4E+02	1.4805F+03	2.2960E+03		Ρ	3.4715E+02	2.0187E+03	3.0390E+03
T	3.974	7E+01	4.8582F+01	·5 • 2256E+01		T	4.1663E+01	5.1550E+01	5.5313E+01
RHO	6.624	4E+00	2.5054E+01	3.4083£+01		· RHO· ·	7.3585F+00 ·	3.0575E+01	4.0362E+01
u -	6.722	7E+01	1.1270F+0?	1.39565+02		н.	7.9600F+01	1.3598E+02	1.6607E+02
A.	5.542	6E+00´	6.4589E+00	6.9043E+00		A	5.7536E+00	6.8325E+00	7.3099E+00
` S	1.228	?E+00	1.2570E+00	1.28975+00		\$	1.2514E+00	1.2894E+00	1.3257E+00
Z.	1.096	6F+00	1.21635+00	1.28916+00		. 2	1.1324E+00	1.2808E+00	1.3613E+00
GAME	7.347	96-01	7.0599F-0t	7.07636-01		GAME	7.01716-01	7.0705E-01	7.0966E-01
O,	1.210	9E+01	3. 1935E+00	2.9067E+00		U	1.3401E+01	3.2301E+00	2.9786E+00
	÷	•							•
, SPEC	1FS		- MOLE EPACTIONS			SPECIES	s	- MOLE FRACTIONS	
F-	8.80	96E-02	1.7785F-01	2.2428E-01	-	E-	1.16898-01	2.1923E-01	2.6539E-01
Α .		81E-01	6.4430E-01	5.5144E-01		Ā.	7.6623E-01	5.61538-01	4.6924E-01.
A+ 1		96E-02	1.7785E-01	2.2427E-01	:	Ä+	1.16895-01	2.1923E-01	2.6536E-01
A++ -		08E-08	1.0651E-06	3.9341E-06		Ã++	7.7497E-08	3.25788-06	1.0747E-05
A+++		30E-21	5.4719E-17	1.2600E-15		A+++ .	7.42786-20	7.7030E-16	1.3835E-14
A++++		295-41.		9.5588E-31		A++++	5.1422E-39	3.5777E-31	8.8069E-29
AV		55F-68	1.9960E-55	3.3301E-51		AV	4.4893E-65	6.3503E-52	4.9546E-48
ÎVÎ	0.		9.6575F-84	2.0408E-77	•	ĀVI			
AVII			0.	- 0.		IIVA	0.	1.4601E-78	1.02716-72
AVIII	ŏ.		5.	0.	•	TIIVA	0.	0.	0. :0.

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r_ · ·	. MOVING SHOCK	STANDING SHOCK		<u>.</u> .	MOVING SHOCK	STAND ING SHOCK	REFLECTED SHOCK
P	3.7805E+02	2.3229E+03	3.4559E+03	P	4•4351E+02	3.0105E+03	4.3883E+03
T 5	4.2560E+01	5.3001E+01	5.6850E+01	T .	4-4274E+01	5.5909F+01	. 6.0016E+01
RHO	7.7137E+00	3.3338E+01	4.3453E+01	RHO	8.4008E+00	3.8861E+01	4.9479E+01
H	8.6154E+01	1.4828E+02	1.8009E+02	H	1.0002E+02	1.7435E+02	2.0986E+02
Α	5.8610F+00	7.0231E+00	7.5198E+00	A	6.0799E+00	7.4173E+00 .	7.9613E+00
Š.	1.2636F+00	1.3064E+00	1.3444E+00	\$.	1.2891E+00	1.3418E+00	1.3832E+00
ž	1.1515E+00	1.3146E+00	1.3990E+00	ž ·- ·	1.1924E+00	1.3856E+00	1.4778E+00
GAME							
	7.0090F-01	7.0789E-01	7.1102E-01	GAME	7.0019E-01	7.1019E-01	7-1466E-01
U	1.4035E+01	3.2571E+00	3.0218E+00	U	1.5296E+01	3.3100E+00	3.1235E+00
*	\						4
			· \		• •		
SPECLE	S	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
					*		
F-	1.3160E-01	2.3933E-01	2.8518E-01	F	1.6139E-01	2.7829F-01	3.2330E-01
- ·	7.3680E-01	5.2135E-01	. 4.2965E-01		6.7722E-01		3.5345E-01
7. .	1.3160E-01	2.3932E-01	2.8515E-01	Ä÷	1.6139E-01		
AT						2.7826E-01	3.2321E-01
A++	1.2941E-07	5.3883E-06	1.7166E-05	A++	3.2467E-97	1.37246-05	4.2231E-05
A+++	2.4032E-19	2.5548F-15	4.2440E-14	A+++	1.9872E-18	2.3825E-14	3.6911E-13
A++++	4.7920E-39	. 3.4948E-30	7.2543E-28	A++++	2.6070E-36	2.3450E-28	4.2081E-26
AV -	2.6581E-63	2.6718E-50	1.4672E-46	AV	2.0934E-60	2.3144E-47	9.9333E-44
AVI		4.7006E-76	1.4855E-70	IVA	0.	9.6966E-72	2.1231E-66
AVII	0.	0.	0.	1 I VA	0.	0.	0.
TITVA	0.	ŏ.	0.	IIIVA	ŏ.	0.	. 0.
*****	•	•	0.	*****	••	٠.	, 0.
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	4.4.4	* 4			* * * * * * * * * * * * * * * * * * *	e e	the second of
Pl =	5.00E+02 N/SQ-M	• US1= 5.40E+03	3 M/SEC	P1 = 5.	00E+02 N/S0-M	. US1= 5.80E+0	3 M/SEC
P1 =	5.00E+02 N/SQ-M	, US1= 5.40E+03	3 M/SEC	P1 = 5.	00E+02 N/SQ-M	• US1= 5.80E+0	3 M/SEC
Pl =	5.00E+02 N/SQ-M	, US1= 5.40E+03	3 M/SEC	P1 = 5.	00E+02 N/SQ-M	. US1= 5.80E+0	3 M/SEC
Pl =							
P1 =	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	MOVING SHOCK 4.1017E+02	STANDING SHOCK: 2.6523E+03	REFLECTED SHOCK 3.9055E+03	P	MOVING SHOCK	STANDING SHOCK 3.3909E+03	REFLECTED SHOCK
P T	MOVING SHOCK 4.1017E+02 4.3429E+01	STANDING SHOCK: 2.6523E+03 5.4449E+01	REFLECTED SHOCK 3.9055E+03 5.8413E+01	P T	MOVING SHOCK 4.7808E+02 4.5099E+01	STANDING SHOCK 3.3909E+03 5.7377E+01	REFLECTED SHOCK 4.9045E+03 6.1674E+01
P T RHO	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00	STANDING SHOCK 2.6523F+03 5.4449F+01 3.6094F+01	REFLECTEN SHOCK 3.9055E+03 5.8413E+01 4.6501E+01	P T RHO	MOVING SHOCK 4.7808E+02 4.5099E+01 8.7311E+00	STANDING SHOCK 3.3909E+03 5.7377E+01 4.1545E+01	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01
P T	MOVING SHOCK 4.1017E+02 4.3429E+01	STAND ING SHOCK: 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02	REFLECTED SHOCK 3.9055E+03 5.8413E+01	P T	MOVING SHOCK 4.7808E+02 4.5099E+01	STANDING SHOCK 3.3909E+03 5.7377E+01	REFLECTED SHOCK 4.9045E+03 6.1674E+01
P T RHO	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00	STANDING SHOCK 2.6523F+03 5.4449F+01 3.6094F+01	REFLECTEN SHOCK 3.9055E+03 5.8413E+01 4.6501E+01	P T RHO	MOVING SHOCK 4.7808E+02 4.5099E+01 8.7311E+00	STANDING SHOCK 3.3909E+03 5.7377E+01 4.1545E+01	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01
P T RHO	MOVING SHOCK 4-1017E+02 4-3429E+01 8-0614E+00 9-2960E+01 5-9697E+00	STAND ING SHOCK: 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00	P T RHO H	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00	STANDING SHOCK 3.3909E+03 5.7377E+01 4.1545E+01 1.8809E+02 7.6215E+00	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02, 8.1955E+00
P T RHO H A	MOVING SHOCK 4-101/TE+02 4-342/EE+01 8-061/EE+00 9-2960/E+01 5-969/TE+00 1-2762/E+00	STAND ING SHOCK. 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00	REFLECTED SHOCK 3.9055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00	P T RHO H A S	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+09 1.0733E+00 6.1918E+00 1.3024E+00	STANDING SHOCK 3-3909E+03 5-7377E+01 4-1545E+01 1-8809E+02 7-6215E+00 1-3601E+00	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00
P T RHO H A S	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00	STANDING SHOCK: 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00	P T HO H A S, Z	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.3024E+00 1.2141E+00	\$TANDING \$HOCK 3.3909E+03 5.7377E+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00 1.5187E+00
P T RHO H A	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01	STAND ING SHOCK: 2.6523F+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00 7.1267E-01	P T RHO H A S, Z GAME	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.3024E+00 1.2141E+00 7.0015E-01	STANDING SHOCK 3.3909E+03 5.7377E+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01	REFLECTED SHOCK 4.9045E403 6.1674E401 5.2361E401 2.2561E402 8.1955E400 1.4033E400 1.5187E400 7.1708E-01
P T RHO H A S	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00	STANDING SHOCK: 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00	P T HO H A S, Z	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.3024E+00 1.2141E+00	\$TANDING \$HOCK 3.3909E+03 5.7377E+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00 1.5187E+00
P T RHO H A S	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01	STAND ING SHOCK: 2.6523F+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00 7.1267E-01	P T RHO H A S, Z GAME	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.3024E+00 1.2141E+00 7.0015E-01	STANDING SHOCK 3.3909E+03 5.7377E+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01	REFLECTED SHOCK 4.9045E403 6.1674E401 5.2361E401 2.2561E402 8.1955E400 1.4033E400 1.5187E400 7.1708E-01
P T RHO H S S Z GAME U	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01 1.4667E+01	STAND ING SHOCK. 2.65238+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01 3.2895E+00	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00 7.1267E-01	P T RHO H A S, Z Game U	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.3024E+00 1.2141E+00 7.0015E-01	\$TANDING \$HOCK 3.3909E+03 5.737TE+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00	REFLECTED SHOCK 4.9045E*03 6.1674E*01 5.2361E*01 2.2561E*02 8.1955E*00 1.4033E*00 1.5187E*00 7.1708E=01 3.1827E*00
P T RHO H A S	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01 1.4667E+01	STAND ING SHOCK: 2.6523F+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00 7.1267E-01	P T RHO H A S, Z GAME	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.3024E+00 1.2141E+00 7.0015E-01	STANDING SHOCK 3.3909E+03 5.7377E+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01	REFLECTED SHOCK 4.9045E*03 6.1674E*01 5.2361E*01 2.2561E*02 8.1955E*00 1.4033E*00 1.5187E*00 7.1708E=01 3.1827E*00
P T RHO H S S Z GAME U	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01 1.4667E+01	STAND ING SHOCK. 2.65238+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01 3.2895E+00	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00 7.1267E-01	P T RHO H A S, Z GAME U	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.3024E+00 1.2141E+00 7.0015E-01	\$TANDING \$HOCK 3.3909E+03 5.737TE+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00	REFLECTED SHOCK 4.9045E*03 6.1674E*01 5.2361E*01 2.2561E*02 8.1955E*00 1.4033E*00 1.5187E*00 7.1708E=01 3.1827E*00
P T RHO H S S Z GAME U	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01 1.4667E+01	STAND ING SHOCK. 2.65238+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01 3.2895E+00	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00 7.1267E-01	P T RHO H A S, Z Game U	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.3024E+00 1.2141E+00 7.0015E-01	STANDING SHOCK 3.3909E+03 5.737TE+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00	REFLECTED SHOCK 4.9045E*03 6.1674E*01 5.2361E*01 2.2561E*02 8.1955E*00 1.4033E*00 1.5187E*00 7.1708E=01 3.1827E*00
P T RHO H S S Z GAME U	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01 1.4667E+01	STAND ING SHOCK. 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01 3.2895E+00 MULE FRACTIONS 2.5901E-01	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.650IE+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00 7.1267E-01 3.0700E+00	P T RHO H A S, Z Game U Species	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.3024E+00 1.3024E+01 1.5922E+01	\$TANDING SHOCK 3.3909E+03 5.737TE+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00 - MOLE FRACTIONS 2.9703E-01	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00 1.5187E+00 7.1708E-01 3.1827E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 4.1017E+02 4.3427E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 7.0041E-01 1.4667E+01 \$	STAND ING SHOCK. 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 7.0893E-01 3.2895E+00 MOLE FRACTIONS 2.5901E-01 4.8198F-01	REFLECTED SHOCK 3.9055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.4378E+00 7.1267E-01 3.0700E+00	P T RHO H A S, Z GAME U SPECIES	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.302EE+00 1.2141E+00 7.0016E-01 1.5922E+01	STANDING SHOCK 3.3909E+03 5.7377E+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00 - MOLE FRACTIONS 2.9703E-01 4.0595E-01	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00 1.5187E+00 7.1708E-01 3.1827E+00 3.4156E-01 3.1694E-01
PTRHOHA ASZGAMEU	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01 1.4667E+01	STAND ING SHOCK: 2.6523F+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01 3.2895E+00 MOLE FRACTIONS 2.5901E-01 4.8198F-01 2.5900E-01	REFLECTEN SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.378E+00 7.1267E-01 3.0700E+00	P T RHO H A S, Z GAME U SPECIES E- A	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1918E+00 1.3024E+00 1.2141E+00 7.0016E-01 1.5922E+01 1.7636E-01 1.7636E-01 1.7636E-01	STANDING SHOCK 3.3909E+03 5.737TE+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00 - MOLE FRACTIONS 2.9703E-01 4.0595E-01 2.9699E-01	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00 1.5187E+00 7.1708E-01 3.1827E+00 3.4156E-01 3.1694E-01 3.4155E-01
P T RHO H A S Z GAME U SPECIE E-A A+A++	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.1716E+00 7.0041E-01 1.4667E+01 3.4645E-01 7.0709E-01 1.4645E-01 2.0827E-07	STAND ING SHOCK. 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.323BE+00 1.3496F+00 7.0893E-01 3.2895E+00 MOLE FRACTIONS 2.5901E-01 4.8198F-01 2.5900E-01 8.6802E-06	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00 7.1267E-01 3.0700E+00 3.0450E-01 3.9103E-01 3.0446E-01 2.7046E-05	P T RHO H A S, Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 4-7809E+02 4-5099E+01 8-731LE+00 1-0733E+02 6-1918E+00 1-3024E+00 1-3024E+01 1-5922E+01 1-7636E-01 6-4728E-01 1-7636E-01 4-9270E-07	\$TANDING SHOCK 3.3909E+03 5.737TE+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00 - MOLE FRACTIONS 2.9703E-01 4.0595E-01 2.9699E-01 2.1317E-05	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.5187E+00 7.1708E-01 3.1827E+00 3.4156E-01 3.1694E-01 3.4143E-01 6.5670E-05
P T RHO H A S Z GAME U SPECIE E-A A A+++	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01 1.4667E+01 S	STAND ING SHOCK: 2.65238+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01 3.2895E+00 MOLE FRACTIONS 2.5901E-01 4.8198F-01 2.5900E-01 8.6802F-06 7.9442E-15	REFLECTED SHOCK 3.9055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.3636E+00 7.1267E-01 3.0700E+00 3.0450E-01 3.9103E-01 3.0444E-01 2.7046E-05 1.2635E-13	P T RHO H A S, Z GAME U SPECIES E- A+ A++ A++	MOVING SHOCK 4-7809E+02 4-5099E+01 8-7311E+00 1-0733E+02 6-1918E+00 1-3024E+00 1-2141E+00 7-0016E-01 1-5922E+01 1-7636E-01 6-4728E-01 1-7636E-01 4-9270E-07 5-1945E-18	\$TANDING SHOCK 3.3909E+03 5.7377E+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00 - MOLE FRACTIONS 2.9703E-01 4.0595E-01 2.9699E-01 2.1317E-05 6.8361E-14	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00 1.5187E+00 7.1708E-01 3.1827E+00 3.4156E-01 3.4156E-01 3.4156E-01 3.694E-01 3.1694E-01 3.1698E-05
P T RHO H A S Z GAME U SPECIE E-A A+A++++A++++	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.1716E+00 7.0041E-01 1.4667E+01 S	STAND ING SHOCK. 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01 3.2895E+00 MOLE FRACTIONS 2.5901E-01 4.8198F-01 2.5900E-01 8.6802F-06 7.9442E-15 2.9229E-29	REFLECTED SHOCK 3.0055Ex03 5.8413Ex01 4.650IEx01 1.9469Ex02 7.7366Ex00 1.3636Ex00 1.4378Ex00 7.1267E-01 3.0700Ex00 3.0450E-01 3.9103E-01 2.7046E-05 1.2635E-13 5.633TE-27	P T RHO H A S, Z GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1919E+00 1.3024E+00 1.2141E+00 7.0016E-01 1.5922E+01	\$TANDING SHOCK 3.3909E+03 5.737TE+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00 - MOLE FRACTIONS 2.9703E-01 4.0595E-01 2.9699E-01 2.1317E-05	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00 1.5187E+00 7.1708E-01 3.1827E+00 3.4156E-01 3.1694E-01 3.4143E-01 6.5670E-05
P T RHO H A S Z GAME U SPECIE E-A A A+++	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01 1.4667E+01 S	STAND ING SHOCK: 2.65238+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01 3.2895E+00 MOLE FRACTIONS 2.5901E-01 4.8198F-01 2.5900E-01 8.6802F-06 7.9442E-15	REFLECTED SHOCK 3.9055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.3636E+00 7.1267E-01 3.0700E+00 3.0450E-01 3.9103E-01 3.0444E-01 2.7046E-05 1.2635E-13	P T RHO H A S, Z GAME U SPECIES E- A+ A++ A++	MOVING SHOCK 4-7809E+02 4-5099E+01 8-7311E+00 1-0733E+02 6-1918E+00 1-3024E+00 1-2141E+00 7-0016E-01 1-5922E+01 1-7636E-01 6-4728E-01 1-7636E-01 4-9270E-07 5-1945E-18	\$TANDING SHOCK 3.3909E+03 5.7377E+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00 - MOLE FRACTIONS 2.9703E-01 4.0595E-01 2.9699E-01 2.1317E-05 6.8361E-14	REFLECTED SHOCK 4.9045E403 6.1674E401 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00 1.5187E+00 7.1708E-01 3.1827E+00 3.4156E-01 3.4156E-01 3.4143E-01 6.5670E-05 1.0699E-12
P T RHO H A S Z GAME U SPECIE E-A A+A++++A++++	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.1716E+00 7.0041E-01 1.4667E+01 S	STAND ING SHOCK. 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01 3.2895E+00 MOLE FRACTIONS 2.5901E-01 4.8198F-01 2.5900E-01 8.6802F-06 7.9442E-15 2.9229E-29	REFLECTED SHOCK 3.0055Ex03 5.8413Ex01 4.650IEx01 1.9469Ex02 7.7366Ex00 1.3636Ex00 1.4378Ex00 7.1267E-01 3.0700Ex00 3.0450E-01 3.9103E-01 2.7046E-05 1.2635E-13 5.633TE-27	P T RHO H A S, Z GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 4.7809E+02 4.5099E+01 8.7311E+00 1.0733E+02 6.1919E+00 1.3024E+00 1.2141E+00 7.0016E-01 1.5922E+01	STANDING SHOCK 3.3909E+03 5.737TE+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00 - MOLE FRACTIONS 2.9703E-01 4.0595E-01 2.9699E-01 2.1317E-05 6.8361E-14 1.6885E-27	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00 1.5187E+00 7.1708E-01 3.1827E+00 3.4156E-01 3.1694E-01 3.4143E-01 6.5670E-05 1.0699E-12 3.0845E-25
P T RHO H A S Z GAME U SPECIE E-A A+A+A+++A++++A++++A++++A++++A++++A	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01 1.4667E-01 7.0709E-01 1.4665E-01 2.0827E-07 7.1606E-19 3.8069E-37 8.9815E-62	STAND ING SHOCK: 2.65238+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.3238E+00 1.3496F+00 7.0893E-01 3.2895E+00 - MOLE FRACTIONS 2.5901E-01 4.8198F-01 2.5900E-01 8.6802F-06 7.9442E-15 2.9229E-29 7.7095E-49 5.4282E-74	REFLECTED SHOCK 3.0055E+03 5.8413E+01 4.6501E+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00 7.1267E-01 3.0700E+00 3.0450E-01 3.9103E-01 3.9146E-05 1.2635E-13 5.6337E-27 3.9450E-45 1.8660E-68	P T RHO H A S, Z GAME U SPECIES E- A+ A++ A++ A++ AV	MOVING SHOCK 4-7809E+02 4-5099E+01 8-7311E+09 1-0733E+02 6-1918E+00 1-3024E+00 1-2141E+00 7-0016E-01 1-5922E+01 1-7636E-01 6-4728E-01 1-7636E+01 4-9270E-07 5-1945E-18 1-5818E-35 3-8398E-51 1-2558E-89	STANDING SHOCK 3.3909E+03 5.7377E+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.1168E-01 3.3500E+00 - MOLE FRACTIONS 2.9703E-01 4.0595E-01 2.9699E-01 2.1317E-05 6.8361E-14 1.6885E-27 5.3878E-46 9.2917E-70	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.4033E+00 1.5187E+00 7.1708E-01 3.1827E+00 3.4156E-01 3.1694E-01 3.694E-01 3.0699E-12 3.0845E-25 2.4141E-42 2.2767E-64
P T RHO H A S Z GAME U SPECIE E- A A+ A+++ A++++ AV I	MOVING SHOCK 4.1017E+02 4.3429E+01 8.0614E+00 9.2960E+01 5.9697E+00 1.2762E+00 1.1716E+00 7.0041E-01 1.4667E+01 3.4645E-01 7.0709E-01 1.4645E-01 2.0827E-07 7.1606E-19 3.8069E-37 8.9815E-62	STAND ING SHOCK. 2.6523E+03 5.4449E+01 3.6094E+01 1.6106E+02 7.2176E+00 1.323BE+00 1.3496F+00 7.0893E-01 3.2895E+00 MOLE FRACTIONS 2.5901E-01 4.8198F-01 2.5900E-01 8.6802F-06 7.9442E-15 2.9229E-29 7.7095E-49	REFLECTED SHOCK 3.9055E+03 5.8413E+01 4.650IE+01 1.9469E+02 7.7366E+00 1.3636E+00 1.4378E+00 7.1267E-01 3.0700E+00 3.0450E-01 3.9103E-01 3.0444E-01 2.7046E-05 1.2635E-13 5.633TE-27 3.9450E-45	P T RHO H A S, Z GAME U SPECIES E- A+ A++ A+++ A+++	MOVING SHOCK 4-7809E+02 4-5099E+01 8-731LE+00 1-0733E+02 6-1918E+00 1-3024E+00 1-3024E+01 1-5922E+01 1-7636E-01 6-4728E-01 1-7636E+01 4-9270E-07 5-1945E-18 1-5818E-35 3-8398E-59	STANDING SHOCK 3.3909E+03 5.737TE+01 4.1545E+01 1.8809E+02 7.6215E+00 1.3601E+00 1.4225E+00 7.116RE-01 3.3500E+00 - MOLE FRACTIONS 2.9703E-01 2.9699E-01 2.1317E-05 6.8361F-14 1.6885E-27 5.3878E-46	REFLECTED SHOCK 4.9045E+03 6.1674E+01 5.2361E+01 2.2561E+02 8.1955E+00 1.5187E+00 7.1708E-01 3.1827E+00 3.4156E-01 3.1694E-01 3.4156E-01 3.6945E-05 1.0699E-12 3.0845E-25 2.4141E-42

• •	24002.02 N, 30 1	., 031 00000	3 117 32 0	P1 =	3.00E402 N/ 30-	15 031- 8-405-6	/3 H/3EC
	·	•					
			REFLECTED SHOCK		MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	5.1385E+02	3.7959E+03	5.4544E+03	ρ	5.8924E+02	4.6824E+03	6.6616E+03
Τ.	4.59098+01	5.8867F+01	6.3406E+01	T	4.7496E+01	6 • 1978E + 01	6.7216E+01
RHO	9.0515E+00	4.4153E+01	5.5118F+Ol	RHO	9.6634E+00	4.9098E+01	6.0161E+01
н	1.1489E+02 .	2.0230E+02	2.4197E+02	н	1.3079E+02	2.32208+02	2.7663E+02
A	6.3053E+00	7.8316E+00	8.4415E+00	A	6.5381F+00	8.2756E+00	8.9815E+00
S	1.3161E+00	1.3789E+00	1.4238F+00	S	1.3444E+00	1.4174E+00	1.4659E+00
Z	1.2366F+00	1-4604E+90	1.5607E+00	ż	1.2838E+00	1.5388E+00	1.6474E+00
GAME	7.0031E-01	7.1344E-01	7.2008E-01	GAME	7.0103E-01	7.1810F-01	7.2851E-01
U	1.6545E+01	3.3963E+00	3.2484E+00	U	1.7791E+01	3.5063E+00	3.4010E+00
SPECIE	S	- MOLE FRACTIONS		SPECIF	s 	MOLE FRACTIONS	
E-	1.9132E-01	3.15?6E-01	3.5927E-01	_	2 21 275 21	2 50125 01	2 02075 01
A	6.1736E-01	3.6952E-01	2.81578-01	E-	2.2107E-01	3.5012E-01	3.9297E-01
A+	1.9132E-01	3.1519E-01	3.5906E-01	A	5.5785E-01	2.9983E-01	2.1432E-01
A++	7.30866-07	3.27276-05	1.02206-04	A+	2.2107E-01	3.4997E-01	3.9246E-01
A+++	1.2911E-17	1.9140E-13	3.11205-12	A++	1.5222F-06	7.59048-05	2.5470E-04
A++++		- 1.1634E-26		A+++	7.0740E-17	1.4540E-12	2.8381E-11
AV	8.69505-35	1.17788-44	2.2600E-24	A++++	2.0883E-33	5.1987E-25	1.3800E-22
IVA	5.9151E-58	8.0884E-68	5.7877E-41	AV	9.5756E-56	5.2830E-42	4.0784E-38
IIVA	1.5496E-87	0.00046-60	2.3327E-62 2.1305E-91	AVT	2.65426-84	6.77785-64	3.3798E-58
AVIII	0.	3.		IIVA	. 0.	0.	2.0448E-85
44111	0.	J.	э.	111VA	0.	0.	0.
P1 =	5.00E+02 N/SQ-M	. US1= 6.20E+0	3 M/SEC	P1 =	5.00E+02 N/SQ-M	I, US1= 6.60F+0	3 M/SFC
		CTANDING GUGGE					
	MOVING SHOCK			_		STANDING SHOCK	
P T	5.5084E+02	4.2252E+03	6-0383E+03	P	6.2879E+02	5.1614E+03	7.3201E+03
RHO	4.6706E+01	6-03945+01	6.5239E+01	Ţ	4.8279E+01	6.36255+01	6.9379E+01
H	9.3615E+00	4.6668E+01	5.7718E+01	RHO	9.9530E+00	5.1374E+01	6.2364E+01
A	1.22716+02	2.1697E+02	2.5895F+02	н	1.39115+02	2.4786F+02	2.9503E+02
	6.4206E+00	8.04835+00	8.7018E+00	A	6.6575E+00	8.5121E+00	9.2852E+00
S Z	1.33016+00	1.3979E+00	1.4447E+00	S	1.3591E+00	1.4371E+00	1.4874E+00
GAME	1.2598E+00	1.49916+00	1.6036E+00	ž	1.30867+00	1.5790E+00	1.6918F+00
U	7.0061E-01	7.15556-01	7.2380E-01	GAME	7.0157E-01	7.2120E-01	7.3451E-01
U	1.7166E+01	3.4480E+00	3.3215E+00	υ .	1.84126+01	3.5719E+00	3.4960E+00
SPECIE	s	MULE FRACTIONS		SPECIE	s 	- MOLE FRACTIONS	
E-	2.0623E-01	3.3293F-01	3.7639E-01	Ę-	2.3580E-01	3.66708-01	4.0892E-01
Ā	5.8754F-01	3.3419E-01	2.4737E-01	À	5.2840E-01	2.66726-01	1.8257E-01
A+	2.0623E-01	3.3283E-01	3.7607E-01	Ã+	2.3579E-01	3.6647E-01	4.0810E-01
A++	1.0633E-06	4.9975E-05	1.6012E-04	Ä++	2.1483E-06	1.1553E-04	4. 1422E-04
A+++	3.0753E-17	5.2858F-13	9.21726-12	A+++	1.5772F-16	4.0064E-12	9.2316E-11
A++++	4.4041E-34	7.8723E-26	1.7072E-23	A++++	9.3331E-33	3.4262E-24	1.22546-21
AV	7.94338-57	2.6080F-43	1.45816-39	ĀV	1.04856-54	1.05576-40	1.3099E-36
AVI	6.9513E-86	8.5021E-66	2.6031E-60	ÄVI	8.7897E-83	5.1259E-62	5.2774E-56
AVII	0.	0.	1.8746E-88	TIVA	0.	5.25776-91	2.8077E-82
AVIII	0.	ō.	0.	ITIVA	0.	0.	0.

T 4.9058E+01 5.3379E+01 7.1765E+01 T 5.0610F+01 6.9150E+01 7. RHO 1.0222E+01 5.3379E+01 6.4191E+01 RHO 1.0739E+01 5.6942E+01 6.1 H 1.4767E+02 2.6372E+02 3.1401E+02 H 1.6559E+02 2.9725E+02 3.2 A 6.7786E+00 8.7566F+00 9.6160E+00 A 7.0289E+00 9.3020E+00 1.0 S 1.3740E+00 1.4568F+00 1.5092E+00 S 1.4048E+00 1.4971E+00 1.0 Z 1.3339E+00 1.6192E+00 1.7364E+00 Z 1.3869E+00 1.7016F+00 1.0 GAME 7.0222E-01 7.2492E-01 7.4205E-01 GAME 7.0389E-01 7.3535E-01 7.0 U 1.9012E+01 3.6458E+00 3.6181E+00 U 2.0239E+01 3.8219E+00 3.1 SPECIES	.4774E+03 .7592E+01 .6990E+01 .5400E+02 .0379E+01 .526E+00 .8233E+00 .6137E-01 .8451E+00
P 6.6889E+02 5.6461F+03 7.9989E+03 P 7.5379E+02 6.7002E+03 9.0002E+03 P 7.5379E+02 6.7002E+03 9.0002E+01 7.49054E+01 6.5324E+01 7.1765E+01 T 5.0610F+01 6.9150E+01 7.2002E+01 7.2002E+01 5.3379E+01 6.4191E+01 RHO 1.0739E+01 5.6942E+01 6.0002E+01 8.0002E+02 2.9725E+02 3.0002E+00	.4774E+03 .7592E+01 .6990E+01 .5400E+02 .0379E+01 .526E+00 .8233E+00 .6137E-01 .8451E+00
P 6.6889E+02 5.6461F+03 7.9989E+03 P 7.5379E+02 6.7002E+03 9.0002E+03 P 7.5379E+02 6.7002E+03 9.0002E+01 7.49054E+01 6.5324E+01 7.1765E+01 T 5.0610F+01 6.9150E+01 7.2002E+01 7.2002E+01 5.3379E+01 6.4191E+01 RHO 1.0739E+01 5.6942E+01 6.0002E+01 8.0002E+02 2.9725E+02 3.0002E+00	.4774E+03 .7592E+01 .6990E+01 .5400E+02 .0379E+01 .526E+00 .8233E+00 .6137E-01 .8451E+00
T 4.9054E+01 6.5324E+01 7.1765E+01 T 5.0619F+01 6.9150E+01 7. RHO 1.0222E+01 5.3379E+01 6.4191E+01 RHO 1.0739E+01 5.6942E+01 6. H 1.4767E+02 2.637ZE+02 3.1401E+02 H 1.6559E+02 2.97ZE+02 3. A 6.7786E+00 8.7566F+00 9.6160E+00 A 7.0289E+00 9.3020E+00 1. S 1.3740E+00 1.4568F+00 1.509ZE+00 S 1.4048E+00 1.4971E+00 1. Z 1.3339F+00 1.619ZE+00 1.736F+00 Z 1.3869E+00 1.7016F+00 1. GAME 7.022ZE-01 7.249ZE-01 7.4205E-01 GAME 7.0385F-01 7.3535E-01 7. U 1.901ZE+01 3.6458E+00 3.6181E+00 U 2.0238E+01 3.8219E+00 3.	.7592E+01 .6990E+01 .5400E+02 .0379E+01 .5526E+00 .8233E+00 .6137E-01
RHO 1.0222E+01 5.3379E+01 6.4191E+01 RHO 1.0739E+01 5.6942E+01 6.1 H 1.4767E+02 2.6372E+02 3.1401E+02 H 1.6559E+02 2.9725E+02 3.2 H 1.6559E+00 9.3020E+00 1.2 H 1.6559E+00 9.3020E+00 1.2 H 1.3740E+00 1.4568F+00 1.5092E+00 S 1.4048E+00 1.4971E+00 1.2 1.3339E+00 1.6192E+00 1.7364E+00 2 1.3869E+00 1.7016F+00 1.2 H 1.3339E+01 7.2492E-01 7.4205E-01 GAME 7.0385F-01 7.3555E-01 7.2492E-01 3.6458E+00 3.6181E+00 U 2.0239E+01 3.8219E+00 3.4 SPECIES	.6990E+01 .5400E+02 .0379E+01 .5526E+00 .8233E+00 .6137E-01 .8451E+00
H 1.4767E+02 2.6372E+02 3.1401E+02 H 1.6559E+02 2.9725E+02 3.4 6.7786E+00 8.7566F+00 9.6160E+00 A 7.0289E+00 9.3020E+00 1.5 1.3740E+00 1.4568F+00 1.5092E+00 S 1.4048E+00 1.4971E+00 1.2 1.3339E+00 1.6192E+00 1.7364E+00 Z 1.3869E+00 1.7016F+00 1.6 GAME 7.0222E-01 7.2492E-01 7.4205E-01 GAME 7.0385F-01 7.3535E-01 7.0 1.9012E+01 3.6458E+00 3.6181E+00 U 2.0238E+01 3.8219E+00 3.6 SPECIES	5400E+02 .0379E+01 .5526E+00 .8233E+00 .6137E-01 .8451E+00
A 6.7786E+00 8.7566F+00 9.6160E+00 A 7.0289E+00 9.3020E+00 1.6192E+00 1.5092E+00 S 1.4048E+00 1.4971E+00 1.6192E+00 1.7016F+00 1.7016F+00 1.7016F+00 1.7022E-01 7.2492E-01 7.4205E-01 GAME 7.0385F-01 7.3535E-01 7.0022E+01 3.6458E+00 3.6181E+00 U 2.0238E+01 3.8219E+00 3.6181E+00 SPECIES	.0379E+01 .5526E+00 .8233E+00 .6137E-01 .8451E+00
S 1.3740E+00 1.4568F+00 1.5092E+00 S 1.4048E+00 1.4971E+00 1. 2 1.3339E+00 1.6192E+00 1.7364E+00 Z 1.3869E+00 1.7016F+00 1. GAME 7.0222E-01 7.2492E-01 7.4205E-01 GAME 7.0389E-01 7.3535E-01 7. U 1.9012E+01 3.6458E+00 3.6181E+00 U 2.0238E+01 3.8219E+00 3.4056E-01 SPECIES	.5526E+00 .8233E+00 .6137E-01 .8451E+00
Z 1.3339F+00 1.6192E+00 1.7364E+00 Z 1.3869E+00 1.7016F+00 1.6 GAME 7.022ZE-01 7.249ZE-01 7.4205E-01 GAME 7.0385F-01 7.3535E-01 7. U 1.901ZE+01 3.6458E+00 3.6181E+00 U 2.0238E+01 3.8219E+00 3.6 SPECIES	.8233E+00 .6137E-01 .8451E+00
GAME 7.0222E-01 7.2492E-01 7.4205E-01 GAME 7.0385F-01 7.3535E-01 7.0222E-01 3.6458E+00 3.6181E+00 U 2.0239E+01 3.8219E+00 3.0229E+01 3.8219E+00 3.0239E+01	.6137E-01 .8451E+00
U 1.9012E+01 3.6458E+00 3.6181E+00 U 2.0239E+01 3.8219E+00 3.6181E+00 SPECIES	.8451E+00
SPECIES MOLE FRACTIONS SPECIES MOLE FRACTIONS	
F- 2.5035F-01 3.8242F-01 4.2409F-01 5- 2.7909F-01 4.222F-01 4	
F-	4.5155E-01
A 4.9931E-01 2.3533E-01 1.5252E-01 A 4.4202E-01 1.7577E-01 9	9.9099E-02
	4.4716E-01
	2.1918E-03
	5.3179E-09
	2.1193E-18
	l.7159E-31
	l.3723E-48
	9.8259E-72
AVIII 0. 0. 0. 0. 0.).
P1 = 5.00E+02 N/SO-M, US1= 7.00E+03 M/SEC P1 = 5.00E+02 N/SQ-M, US1= 7.40E+03 M/SEC	;
P1 = 5.00E+02 N/SO-M, US1= 7.00E+03 M/SEC. P1 = 5.00E+02 N/SQ-M, US1= 7.40E+03 M/SEC	:
MOVING SHUCK STANDING SHOCK REFLECTED SHOCK MOVING SHOCK STANDING SHOCK REFLECT P 7-1051E+02 6-1583F+03 8-7126E+03 P 7-9796E+02 7-2505E+03 1-0	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 7.2505E+03 P 7.9796E+02 7.2505E+03 1.0	TED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126F+03 P 7.9796E+02 7.2505E+03 1.05 P 7.9830E+01 6.7151E+01 7.4449E+01 T 5.1394E+01 7.1325E+01 8.05 P	TED SHOCK 0283E+04
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7-1051E+02 6-1583F+03 8-7126E+03 P 7-9796E+02 7-2505E+03 1.05189E+01 7-1325E+01 8-10484E+01 5-5242E+01 6-5743E+01 RHO 1-0497FE+01 5-8332E+01 RHO 1-0497FE+01 5-8332E+01 RHO 1-0497FE+01 5-8332E+01 RHO 1-0497FE+01 5-8332E+01 RHO 1-0497FE+01 7-0497FE+01	TED SHOCK 0283E+04 1283E+01
MOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 7-1051E+02 6-1583F+03 8-7126E+03 P 7-9796E+02 7-2505E+03 1.0 T 4-9830E+01 6-7151E+01 7-4449E+01 T 5-1394E+01 7.1325E+01 8.1 RHO 1-0484E+01 5-5242E+01 6-5743E+01 RHO 1-0977E+01 5-8332E+01 6.1 H 1-5649E+02 2-8017E+02 3-3349E+02 H 1-7492E+02 3-1464E+02 3	CTED SHOCK 0283E+04 1283E+01 .7830E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.07 1.051E+01 7.4449E+01 T 5.1394E+01 7.1325E+01 8.07 1.0449E+01 5.5242E+01 6.5743E+01 RHO 1.0497E+01 5.8332E+01 6.1 1.5649E+02 2.8017E+02 3.3349F+02 H 1.7492E+02 3.1464E+02 3.0 1.09023E+00 9.0183E+00 9.9776E+00 A 7.1580E+00 9.6664F+00 1.09023E+00 1.4768E+00 1.5308E+00 S 1.4266E+00 1.5173E+00 1.5173E+0	TED SHOCK 0283E+04 1283E+01 7830E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.05126E+01 7.4449E+01 T 5.1394E+01 7.1325E+01 8.05126E+01 7.1325E+01 8.05126E+01 7.05126E+01 8.05126E+01 7.05126E+01 8.05126E+01 8.0	TED SHOCK 0283E+04 1283E+01 7830E+01 7570E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.051E+01 7.4985E+01 7.1325E+01 8.1 7.1325E+01	TED SHOCK 0283E+04 1283E+01 7830E+01 7570E+02 0799E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.051E+01 7.4449E+01 T 5.1394E+01 7.1325E+01 8.1840E+01 5.5242E+01 6.5743E+01 RHO 1.0977E+01 5.8332E+01 6.1840E+02 3.3449E+02 H 1.7492E+02 3.1464E+02	TED SHOCK .0283E+04 .1283E+01 .7830E+01 .7570E+02 .0799E+01 .5749E+00 .8651E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.051E+01 7.4449E+01 T 5.1394E+01 7.1325E+01 8.1840E+01 5.5242E+01 6.5743E+01 RHO 1.0977E+01 5.8332E+01 6.1840E+02 3.3449E+02 H 1.7492E+02 3.1464E+02	TED SHOCK .0283E+04 .1283E+01 .1283E+01 .7830E+01 .7570E+02 .0799E+01 .5749E+00 .6651E+00 .6691E-01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.051E+01 7.4449E+01 T 5.1394E+01 7.1325E+01 8.1840E+01 5.5242E+01 6.5743E+01 RHO 1.0977E+01 5.8332E+01 6.1840E+02 3.3449E+02 H 1.7492E+02 3.1464E+02	TED SHOCK 0283E+04 1283E+01 7830E+01 7570E+02 0799E+01 5749E+00 6651E+00 6621E-01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.0 1	TED SHOCK .0283E+04 .1283E+01 .7830E+01 .7570E+02 .0799E+01 .5749E+00 .8651E+00 .6921E-01 .0237E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.05 1.0	TED SHOCK .0283E+04 .1283E+01 .7830E+01 .7570E+02 .0799E+01 .5749E+00 .8651E+00 .6921E-01 .0237E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.4	TED SHOCK .0283E+04 .1283E+01 .7830E+01 .7570E+02 .0799E+01 .5749E+00 .8651E+00 .6921E-01 .0237E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.4050E+01 7.4930E+01 5.5242E+01 7.4449E+01 T 5.1394E+01 7.1325E+01 8.1060E+01 7.1060E+01 7.1060	TED SHOCK .0283E+04 .1283E+01 .7830E+01 .7830E+01 .7570E+02 .0799E+01 .5749E+00 .8651E+00 .6921E-01 .0237E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.0 1.0484E+01 5.5242E+01 6.5743E+01 RHO 1.0484E+01 5.5242E+01 6.5743E+01 RHO 1.0977E+01 5.8332E+01 6. 1.5649E+02 2.8017E+02 3.3349F+02 H 1.7492E+02 3.1464E+02 3. 1.464E+02 3. 1.3893E+00 9.0183E+00 9.9776E+00 A 7.1580E+00 9.6064F+00 1.0 1.3893E+00 1.4768E+00 1.5808E+00 5.13893E+00 1.4768E+00 1.5808E+00 2. 1.4465E+00 1.5173E+00 1.5173E+00 1.5173E+00 1.0	TED SHOCK 0283E+04 1283E+01 1283E+01 17830E+01 7570E+02 0799E+01 5749E+00 8651E+00 6921E-01 0237E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	TED SHOCK .0283E+04 .1283E+01 .7830E+01 .7570E+02 .0799E+01 .5749E+00 .8651E+00 .6921E-01 .0237E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.4 1.4 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.5 1.4 1.5 1	TED SHOCK .0283E+04 .1283E+01 .7830E+01 .7570E+02 .779E+01 .5749E+00 .651E+00 .6921E-01 .0237E+00 .6536E-01 .6560E-02 .5536E-01 .2378E-03 .6720E-08
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	CTED SHOCK 0.283E+04 1.283E+01 1.7830E+01 1.7570E+02 0.799E+01 5.749E+00 8651E+00 6921E-01 0.237E+00 0.6384E-01 1.6560E-02 1.5536E-01 1.2378E-03 1.6720E-08 1.6720E-08 1.6734E-17 1.8065E-29
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.4 7.4985E+01 7.4985E+01 7.1325E+01 8.1 7.4985E+02 3.1466E+02 3	TED SHOCK .0283E+04 .1283E+01 .7830E+01 .7830E+01 .779E+02 .0799E+01 .5749E+00 .8651E+00 .0237E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 7.1051E+02 6.1583F+03 8.7126E+03 P 7.9796E+02 7.2505E+03 1.051E+01 7.449E+01 T 5.1394E+01 7.1325E+01 8.1 8	TED SHOCK .0283E+04 .1283E+01 .7830E+01 .7570E+02 .779F+01 .5749E+00 .8651E+00 .6921E-01 .0237E+00 .6536E-01 .2378E-03 .6720E-08 .6720E-08 .0734E-17 .8065E-29 .1526E-45 .3919E-67

P1 = 5.00E+02 N/S0-M, US1= 7.60E+03 M/SEC	P1 = 5.00E+02 N/SQ-M. US1= 8.00E+03 M/SEC
300000000000000000000000000000000000000	71 = 31002102 111 32 11
- MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
	P 9.3751E+02 8.9683E+03 1.2848E+04
T > 5.2184F+01 7.3746E+01 8.5310E+01	T 5.3802E+01 7.9558E+01 9.3085E+01
RHO 1.1202F+01 5.9422E+01 6.8467E+01	RHD 1.1611E+01 6.0628E+01 7.0041E+01

H 3.9791E+02 3.3246E+02 3.9791E+02	H 2.0445E+02 3.6931E+02 4.4362E+02
A 7.2901E+00 9.9373E+00 1.1170E+01	A 7.5641E+00 1.0661E+01 1.1706E+01 =
S 1.4366E+00 1.5374E+00 1.5966E+00	S 1.4694E+00 1.5772E+00 1.6384E+00
Z^,	Z _ 1.5008E+00
GAME 7.0595F-01 7.5096E-01 7.6851E-01	GAME 7.0861E-01 7.6834E-01 7.4702E-01
U	U 2.2660E+01 4.3453E+00 4.5026E+00
0.9.4. 2. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	0 2,28602401 4.34352400 4.50282400
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SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
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	the control of the co
E-; 4.7455E-01 4.7455E-01	E- 3.3368E-01 4.6217E-01 4.9255E-01
	A 3.3266E-01 7.9119E-02 3.8506E-02
A+ 3.0679E-01 4.3691E-01 4.5824E-01"	A+ 3.3364E-01 4.5525E-01 4.4535E-01
A++ 1.0378F-05 1.1360F-03 8.1527F-03.	A++ 1.8777E-05 3.4621E-03 2.3594E-02
A+++. 6.3423E=15 1.0209E=09 1.3438E=07	A+++ 2.5803E-14 1.5457E-08 1.9720E-06
A++++: -% '9.1551F-30" 9.6458F-20	A++++ 1.2469E-28 1.3992E-17 1.1057E-13
AV: 1.9023E-27	AV 4.0172E-48 3.1278E-30 4.7018E-24
	AVI 3.6000E-73 8.4703E-47 7.7836E-38
AVII 1 0. 3.0909E-76 1.9228E-63	AVII 0. 3.0789E-69 1.7218E-56
AVIII 0. 1.4309E-88	AVIII 0. 0. 2.9210E-79
27111	AVIII 0. 2. 22.72.10L ()
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	p.
	Section 1985 and 1985
P1 = 5.00F+02 N/SQ-H, US1= 7.80E+03 M/SEC	P1 = 5.00E+02 N/SQ-M, US1= 8.20E+03 M/SEC
P1 = 5.00FF02 N/SQ-M, US1= 7.80E+03 M/SEC	P1 = 5.00E+02 N/SQ-M, US1= 8.20E+03 M/SEC
P1 = 5.00F+02 N/SQ-H, US1= 7.80E+03 M/SEC	P1 = 5.00E+02 N/SQ-M, US1= 8.20E+03 M/SEC
P1 = 5.00F+02 N/SQ-M, US1= 7.80E+03 M/SEC	P1 = 5.00E+02 N/SQ-M, US1= 8.20E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P	. MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 4661.3733E+04
P 40VING SHOCK STANDING SHOCK REFLECTED SHOCK P 8.3874E+03 1.1974E+04 1.1974E+04 1.1974E+01 1.197E+01 1.197E+01 1.197E+01 1.197E+01 1.197E+01 1.197E+01 1.197E+01 1.1	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F€02 9.5570E€03 4501.3733E€04 T 5.4636E€01 8.2947E€01 9.6417E€01
P	. MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 4661.3733E+04
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 8.8982E+02 8.3874E+03 1.1974E+04. T 5.2986E+01 7.6478E+01 9.9413E+01. RHO 1.1413E+01 6.0184E+01 6.9082E+01.	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8615F+02 9.5570E+03 4₹21.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.8982E+02" 8.3874E+03 1.1974E+04 T 5.2986E+01" 7.6478E+01 9.9413E+01 RHO 1.1413E+01 6.0184E+01 6.9082E+01 H: 1.9435E+02 3.5068E+02 4.2063E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 4661.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480F+02 3.8835E+02 4.6678E+02
MDVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 4261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.8982E+02" 8.3874E+03 1.1974E+04 T 5.2986E+01" 7.6478E+01 9.9413E+01 RHO 1.1413E+01 6.0184E+01 6.9082E+01 H: 1.9435E+02 3.5068E+02 4.2063E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 4261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	. MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8615F+02 9.5570E+03 47.61.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 1.5584E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 47.61.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	. MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8615F+02 9.5570E+03 47.61.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 1.5584E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635E+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935E+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019E-01 7.7099E-01 7.3774E-01 7.37
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635E+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935E+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019E-01 7.7099E-01 7.3774E-01 7.37
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635E+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935E+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019E-01 7.7099E-01 7.3774E-01 7.37
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635E+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935E+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019E-01 7.7099E-01 7.3774E-01 7.37
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2;1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019F-01 7.7097E-01 7.3774E-01 U 2.3269E+01 4.5141E+00 4.6199E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635E+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935E+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019E-01 7.7099E-01 7.3774E-01 7.37
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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2;1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019F-01 7.7097E-01 7.3774E-01 U 2.3269E+01 4.5141E+00 4.6199E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 2.0027E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019F-01 7.7097E-01 7.3774E-01 U 2.3269E+01 4.5141E+00 4.6199E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8615F+02 9.5570E+03 4.61.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019F+01 7.7097E+01 7.3774E+01 U 2.3260E+01 4.5141E+00 4.6199E+00 SPECIES
## MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019F-01 7.7099E+01 7.3774E+01 U 2.3269E+01 4.5141E+00 4.6199E+00 SPECIES MOLE FRACTIONS FRACTIONS FRACTIONS FRACTIONS E- 3.4672F-01 4.7191E+01 5.0067E+01 A 3.0658E+01 4.5949E+02 3.2930E+02 A 3.4667E+01 4.5949E+01 4.3213E+01 4.
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 42.1.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019F-01 7.7097E-01 7.3774E-01 U 2.3269E+01 4.5141E+00 4.6199E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 2.027E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019F-01 7.7097E-01 7.3774E-01 U 2.3269E+01 4.5141E+00 4.6199E+00 SPECIES
### ### ##############################	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9,8635F+02 9,5570F+03 47613733E+04 T 5,4636E+01 8,2947E+01 9,6417E+01 RHO 1,1794E+01 6,0845E+01 7,1122E+01 H 2,1480E+02 3,8835E+02 4,6678E+02 A 7,7069E+00 1,1004E+01 1,1935F+01 S 1,4861E+00 1,5967E+00 1,6584E+00 Z 1,5307E+00 1,6936E+00 2,0027E+00 GAME 7,1019F-01 7,7097E-01 7,3774E-01 U 2,3260E+01 4,5141E+00 4,6199E+00 SPECIES
## ## ## ## ## ## ## ## ## ## ## ## ##	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 ***21.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 2.0027E+00 Z 1.5307E+00 1.6584E+00 2.0027E+00 Z 1.5307E+00 1.6584E+00 2.0027E+00 Z 2.3260E+01 4.5141E+00 4.6199E+00 U 2.3260E+01 4.5141E+00 4.6199E+00 SPECIES MOLE FRACTIONS FRACTIONS FRACTIONS FRACTIONS E
### ### ##############################	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 ***21.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 2.0027E+00 Z 1.5307E+00 1.6584E+00 2.0027E+00 Z 1.5307E+00 1.6584E+00 2.0027E+00 Z 2.3260E+01 4.5141E+00 4.6199E+00 U 2.3260E+01 4.5141E+00 4.6199E+00 SPECIES MOLE FRACTIONS FRACTIONS FRACTIONS FRACTIONS E
### ### ##############################	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 2.0027E+00 GAME 7.1019F-01 7.7097E-01 7.3774E-01 U 2.3269E+01 4.5141E+00 4.6199E+00 SPECIES
## MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635E+02 9.5570E+03 47.61.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.004E+01 1.1935E+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019E+01 7.7099E+01 7.3774E+01 U 2.3269E+01 4.5141E+00 4.6199E+00 SPECIES
MOVING SHOCK STANDING-SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635F+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 2.0027E+00 GAME 7.1019F-01 7.7097E-01 7.3774E-01 U 2.3269E+01 4.5141E+00 4.6199E+00 SPECIES
MOVING SHOCK STANDING-SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8615F+02 9.5570E+03 #261.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.1004E+01 1.1935F+01 S 1.4861E+00 1.5967E+00 2.0027E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 Z 1.5307E+01 4.5141E+00 4.6199E+00 C 2.3269E+01 4.5949E+01 4.3213E+01 4.5467E-01 4.5949E+01 4.3213E+01 4.5467E-01 4.5949E+01 4.3213E+01 4.5467E-01 4.5949E+01 4.3213E+01 4.5467E-01 4.5670E+02 4.5949E+01 4.3213E+01 4.5670E+02 4
## MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.8635E+02 9.5570E+03 47.61.3733E+04 T 5.4636E+01 8.2947E+01 9.6417E+01 RHO 1.1794E+01 6.0845E+01 7.1122E+01 H 2.1480E+02 3.8835E+02 4.6678E+02 A 7.7069E+00 1.004E+01 1.1935E+01 S 1.4861E+00 1.5967E+00 1.6584E+00 Z 1.5307E+00 1.8936E+00 2.0027E+00 GAME 7.1019E+01 7.7099E+01 7.3774E+01 U 2.3269E+01 4.5141E+00 4.6199E+00 SPECIES

Pl =	5.00E+02 N/SQ-M,	US1= 8.40E+03	M/SEC .		Pl = !	5.00E+02 N/SQ-H	, US1= 8.80E+0	3 M/SEC
						•		
	MOVENS SHOCK . S	STANDING SHOCK	REFLECTED SHOCK		•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р.	1.0363E+03	1.0157E+04	1.4642E+04		P	1.13975+03	1.1405E+04	1.6457E+04
Ť	5.5494E+01	8.64715+01	9.9469E+01		Ť	5.7305F+01	9.31216+01	1.0476E+02
RHO -	1.1961E+01	6.1013F+01	7.2318E+01	·	RHO	1.2249E+01	6.1711E+01	7.4756E+01
		4.0783E+02	4.9066E+02	- Sec. 1994				
н	2.2540E+02		1.2169E+01		H	2.4736E+02	4.4824E+02	5-3843E+02
A :	7.8541F+00	1.1288E+01			2	8.1646E+00	1.1728E+01	1.2634E+01
.s	. 1.5030E+00	1.6159E+00	1.6784E+00		S	1.53748+00	1.6539E+00	1.7172E+00
Z	1.5612E+00	1.9252E+00	2.0355E+00		2	1.6237E+00	1.9846E+00	2-1014E+00
GAME	7.1200F-01	7.6534E-01	7.31376-01	1	GAME	7.1643E-01	7.4425E-01	7-2505E-01
U	2.3858E+01	4.6826E+00	4.7480E+00		· U	2-5048F+01	4.9736E+00	4.9072E+00
SPECIE	s	MOLE FRACTIONS			SPECIES	S	- MOLE FRACTIONS	
E-	3.5948E-01	4.8056E-01	5.0873E-01		E-	3.8412E-01	4.9612E-01	5.2413E-01
Ā.	2.8107E-01	4.9694E-02	2.8829E-02		Ā	2.3182E-01	3.4185E-02	2.3237E-02
Ã+	3.5942E-01	4.5892F-01	4.1617E-01		Ä+	3.8400E-01	4.4328E-01	3.8118E-01
A++	3.3868E-05	1.0819E-02	4.6262E-02	r	A++	6.1741E-05	2.6412E-02	7.1414E-02
A+++	1.0474E-13	2.5730F-07	1.1870E-05		A+++	4.3766E-13	2.48856-06	4.1057E-05
	1.6745F-27	2.4019E-15	3.1991E-12		A++++	2.3296E-26	1.5777E-13	3.4441E-11:
A+++,+,			1.00368-21					
AV	2.4699E-46	1.0259E-26			AV	1.5161E-44	7.6131E-24	4.6102E-20
IVA	1.4094E-70	1.0103F-41	1.9193E-34		4 AVI	3 4-4017E-68	1.4392E-37	5.2234E-32
AVII	0.	4.77856-62	1.1753E-51		IIVA	0.	3.6842E-56	3.5524E-48
IIIVA	0.	9.47336-87	9.6461E-73		IJIVA	0.	7.4312E-79	4.7843E-68
			•					
			•					
						•		•
P1 =	5.00E+02 N/SO-M,	US1= 8.60E+0	3 M/SEC		P1 =	5.00E+02 N/SQ-M	, US1= 9.00E+0	3 M/SEC
								•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			"MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ.	1.0875E+03	. 1.0772E+04	1.5541E+04		P		1.2052E+04	1.7378E+04
Ť	5.6382F+01	8.9858F+01	1.0219E+02		T	5-8274F+01	9.5965E+01	1.0720E+02
RHO	1.2114E+01	6.1337F+01	7.3544E+01		RHO	1.2367E+01	6.2382F+01	7.5907E+01
H	2.3625E+02	4.2779E+02	5.1419E+02		`. H	2.5872E+02	4.6920E+02	5.6310E+02
Ä	8.0065F+00	1.1515E+01	1.2398E+01		. A	9.3297E+00	1.1928E+01	1.2872E+01
	1.5201F+00	1.6345E+00	1.6977E+00		ŝ	1.5548E+00	1.6719E+00	1.7366E+00
ž	1.5922E+00	1.95455+00	2-0679E+00		ž	1.6556E+00	2.0132E+00	2.1356E+00
GAME	7.1406E-01	7.5497E-01	7.2744E-01		GAME	7.1918E-01	7. 3642E-01	7.2378E-01
					· U			
u,	2.4454E+01	4.8376E+00	4.8213F+00		U	2,56396+01	5.0894E+00	4.9885E+00
<u>.</u>								•
SPECIE	S	MOLE FRACTIONS			SPECIE	5	- MOLE FRACTIONS	
E-	3.7196E-01	4.8836E-01	5.16428-01		, E-	3.9597F-01	5.0328E-01	5.3175E-01
Α .	2.5614F-01	4.0757E-02	2.5769E-02	: -	A	2.0814F-01	2.9749E-02	2.1084E-02
A+	3.7186E-01	4.5341E-01	3.9922E-01		A+ .	3.9580E-01	4.3066E-01	3.6265E-01
A++	4.5617E-05	1.7470E-02	5.8568E-02		A++	8.4181E-05	3.6305E-02	8.4450E-02
A+++	2.1251E-13	8.6031F-07	2.3029E-05		A+++	9.21446-13	5.7649E-06	6.8269E-05
A++++	6.13086-27	2.2111E-14	1.1304E-11		A+++	9.35646-26	7.5758E-13	9.2667E-11
AV	1.83416-45	3.4007F-25	7.6131E-21		AV	1.4537E-43	9.2269E-23	2.2979E-19
IVA	2.0361E-69	1.59458-39	3.6991E-33		IVA	1.4808E-66	5.4012E-36	5.55246-31
AVII	0.	6.2174F-59	7.9190E-50		TIVA	0.	6.3912E-54	1.05186-46
AVIII	· Û.	1.41806-82	2.7180E+70		111VA	0.	7.61418-76	4.6641E-66
		1 4 4 7 0 0 5 - 0 5	2011000-10		WATEI	, v•	1401416-10	4. 0047 C. 00 3

, P1 =	5.00E+02 N/SQ-M	. US 1=. 9.20E+0	3 M/SEC	. Pl =	5.90E+02 N/SQ-H	US1= 9-60E+0	3 M/SEC
	MOVING SHOCK	STANDENG SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.2475E+93	1.27105+04	1.8298E+04	P	1.35955+03	1.4030E+04	2.0116E+04
T	5.9299E+01	9.8622E+01	1.0951E+02	Ť	6.1576E+01	1.03435+02	1.1403E+02
RHO	1.24656+01	6.3078E+01	7.7009E+01	RHO	1.2598E+01	6.4426E+01	7.8673E+01
н	2.70336+02	4.9063E+02	5.8820E+02	H	2.9430E+02	5.3482F+02	6.3975E+02
Δ	8.5029E+00	1.2135E+01	1.3110E+01	Ä	8.8813F+00	1. 2564E+01	1.3606F+01
5	1.5723E+00	1.6904E+00	1.7558E+00	ŝ	1.6075E+00	1.72795+00	1.7956E+00
í.	1.6877E+00	2.0431E+00	2.1699E+00	ž	1.7526F+00	2.1056F+00	2.2424E+00
GAME	7-2242E-01	7.3085E-01	7.23315-01	GAME	7.3091E-01	7. 2486E-01	7.2401E-01
IJ	2.6227E+01	5.19016+00	5.0672E+00	U	2.7392F+01	5. 3609E+00	5.2212E+00
	2002272.01		3200122100	· ·	2413721701	32 3009E ¥ 00 .	3.22125.400
SPECIE	E\$	- MOLE FRACTIONS		SPEC IE	s	- MOLE FRACTIONS	
F	4.0748E-01	5.1054E-01	5.3915E-01	E-	4.2941E-01	5.2507F-01	5.5406E-01
Ã	1.85156-01	2-6304F-02	1.92316-02	Ä	1.41416-01	2.1263E-02	1.5906E-02
Ã+	4.0725E-01	4.15785-01	3.4421E-01	Ã+	4.2895E-01	3.8230E-01	3.06258-01
Δ++	1-15906-04	4.7365E-02	9. 7309E-02	A++	2.2938F-04	7.1325E-02	1.2355E-01
A+++	1.9874F-12	1.18716-05	1.0689E-04	A+++	1.0261E-11	3.8099F-05	2.3899E-04
A++++	3.89605-25	2.9543E-12	2. 2382E-10	A++++	8.0181E-24	2.7419E-11	1.11408-09
AV .	1.41846-42	8 • 1076F - 22	9.6733E-19	ÄV	1.6922F-40	2.9152F-20	1. 3439E-17
AVI	4.2039E-65	1.2812E-34	4.6232E-30	ÄVI	4.3182E-62	2.4190F-32	2.27116-28
AVII	0.	5.3035F-52	2.19645-45	IVA	1.51306-91	1.0312E-48	5. 9287E-43
IIIVA	ŏ.	3.2792F-73	2.8278E-64	AVIII	0.	7.8652F-69	5. 5541E-61
					•		34 33 4 1 E - 01
	•						,
					•		
, P1 =	5.00E+02 N/SO-M	US1≈ 9.40E+0	3 M/SEC	P1 = 5	5.00F+02 N/S0-M	. US1= 9.80E+0	3 M/SEC
			· .		*		
		STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	1.3020E+03	1.3371F+04	1.9214E+04	P	1.4170E+03	1.4676E+04	2.0997E+04
T	6.0393E+01	1.01986+02	1.1182E+02	T	6-2871F+01	1.0567F+02	1.1621E+02
RHO	1.2543E+01	6.378RE+01	7.7883E+01	RHD	1.2627E+01	6.50186+01	7.9269F+01
H -	2.8219E+02	5.1251F+02	6.1375E+02	H	3.0665F+02	5.5753E+02	6.6618E+02
A	8.6860E+00	1.2346F+01	1.3359E+01	A	9.0917F+00	1.2780E+01	1.38576+01
S	1.5899E+00	-1.7090E+00	1.7759E+00	S	1.6252F+00	1.7465F+00	1.8156E+00
L	1.7201F+00	2.0737E+00	2.2063F+00	Z	1.7849E+00	2 • 1 3 74 5 + 00	2-27946+00
GAME	- 7.2627E-01	7.2719E-01	7.2343E-01	GAME	7.3657E-01	7.2358F-01	7.2496E-01
U	2-6811F+01	5.2800E+00	5.1444E+00	U	2.7968E+01	5.4408E+00	5.2980E+00
SPECIE	s	MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
. ,	4 1966E-01	5 17745-01	5 44745-01		4 20745 01 1		
E-	4.1864F-01 1.6288E-01	5.1776E-01 2.3572F-02	5.4676E-01 1.7470E-02	€-	4.3976E-01	5.3215E-01	5.6128E-01
				Α	1.2082F-01	1.9336F-02	1.4440E-02
A+ A++	4.1832E-01	3.9960E-01	3.2495E-01	A+	4.3909E-01	3.6494F-01	2.8762E-01
	1.6158E=04	5.9049E-02	1-1066F-01	A++	3.32758-04	8.3512F-02	1.3632E-01
A+++	4.4001E-12	2.2030E-05	1.6329E-04	A+++	2.5110E-11	6.1236E-05	3.4141E-04
A++++	1.6580E-24	9.5766E-12	5.1900E-10	A+++	4.1133E-23	6.8818E-11	2.2923F-09
AV	1 21025 11	E 34035 21					
4148	1.3183F-41	5.3493E-21	3.8307E-18	AV	2.16885-39	1.29346-19	4.417LE-17
AVI	8.6208E-64	2.0160E-33	3.5364E-29	1VA	1-6066E-60	2.15866-31	1.32878-27
AVI AVIII AVIII							

$_{\rm p_1}$ - 500 N/ ${\rm m^2}$

P1 = 5	-00E+02 N/SQ-M	, US1= 1.00E+0	4 M/SEC	· P1 =	5.00E+02 N/SQ-	1, US1= 1.04E+0	4 M/SEC
	MOUTHE SHOCK	STANDING SHOCK	REFLECTED SHOCK		MONTHE CHOCK		REFLECTED SHOCK
P		1.5306E+04	. 2.1843E+04	р.			
- -	1.4754E+03 6:4311E+01	1.0768E+02	1.1836E+02		1.5945E+03	1.6457F+04	2.3373E+04
RHO.				Ť	. 6.7801E+01	1.1164E+02	1.2262E+02
KHU	1.2626E+01	6.5510E+01	7.9651E+01	RHO .	1.2520E+01	6.5889E+01	7-9643E+01
н	3.1925E+02	5.8063E+02	6.9301E+02	н	3.4519E+02	6.2779E+02	7.4777E+02
A	9.32116+00	1.29976+01	1.4112E+01	A	9.8520E+00	1.3441E+01	1.4631E+01
S	1-6429E+00	1.7651E+00	1.8357E+00	S	1.6780E+00	1.8033E+00	1.8765E+00
Z	1.8170E+00	2.1698E+00	2.3169E+00	Z	1.8785E+00	2.2373E+00	2.3933E+00
GAME	7.4353E-01	7.2300F-01,	7.2622E-01	GAME	7.6210E-01	7.2332E-01	7.2943E-01
U	2.8539E+01	5.5087E+00	5.3751E+00	U	2.9659E+01	5.6439E+00	5.5312E+00
SPECIES		- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
			5 40005 54	1			
E-	4.4963E-01	5.3914E-01	5.6838E-01	E-	4.6765E-01	5.5303E-01	5.8216E-01
A.	1.0123E-01	1.7638E-02	1.3060E-02	A	6.5950E-02	1.4636E-02	1.0520E-02
A+,	4.4864E-01	3.4740E-01	2.6922E-01	A+	4.6516E-01	3.1185E-01	. 2.3337E-01
A++	4.9687E-04	9.5727E-02	1.4886E-01	A++	1.2446E-03	1.2029E-01	1.7306E-01
A+++	: 6.6091E-11	9.3781F-05	4.7753E-04	A+++	6.1252E-10	. 1.9942E-04	8.8908E+04
Δ+++	2.4191E-22	1.5846E-10	4.5455E-09	A++++	1.4380E-20	,7.0552E-10	1.6400E-08
AV '	3-4840F-38	` 5.0165E-19	1.3700E-16	AV	2.2336E-35	5.7457E-18	1.1520E-15
AVI T	8.3802E-59	1.5872E-30	7.1443E-27	IVA	1.0708E-54	5.8004E-29	1.6996E-25
AVII	3.6935F-87	4.1248E-46	8.4892E-41	AVII	4.5601E-81	7.2096E-44	8. 1198E-39
AVITI	0.	2.5704E-65	4.6584E-58	1 TIVA	Ö.	2.78596-62	2.2569E-55
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		•		•			
• '	•						
P1 = 5	-00E+02 N/SQ-M	, US1= 1.02E+0	4 M/SEC -	Pl =	5.00E+02 N/SQ-	1. US1= 1.06E+0	4 M/SEC
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	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	1.5346E+03	1.5903E+04	2.2640E+04	. Р	1.6551E+03	. 1.6959E+04	2.4029E+04
T '	6:5938E+01	1.0972F+02	1.2050E+02	7	6.9951F+01	12 (11.1352E+02	1-2474E+02
RHO	1.2592E+01	. 6.5763F+01	7.9786E+01	RHO	1.2409E+01	6.5756E+01	7.9212E+01
н .	3.3210E+02	6.0406F+02	7.2023E+02	н	3.5851E+02	6.5178E+02	7.7562E+02
A	9.5737F+00	1.32225+01	1.4370E+01	Ä	1.0150E+01	1.3665E+01	1.48945+01
ŝ "	1.6605E+00	1.7845E+00	1.85608+00	ŝ	1.6952E+00	1.8228E+00	1.8972E+00
ž	1.8483E+00	2.2039E+00	2.3548E+00	2	1.9068E+00	2.2718E+00 .	2.4320E+00
GAME	7.5206E-01	7. 2295F-01	7.2772E-01	GAME	7.7244E-01	7.2401E-01	7.3130E-01
U	2.9103E+01	5.5775E+00		U		5.7086E+00	5.6103E+00
٠.	2.91035701	3.37736400	5.4528F+00	U	3.0206E+01	3. 7986E+00	3-01036+00
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SPECIES		- MOLE FRACTIONS		SPECIE	s	MOLE FRACTIONS	
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E-	4.5896E-01	5.4626F-01	5.7534E-01	E-	4.75578-01	5.5982E-01	5.8881E-01
Α.	8.2846E-02	1.6042E-02	1.1756E-02	A	5.0973E-02	1.32946-02	9.3511E-03
A+	4.5742E-01	3.2927E-01	2.5112F-01	, A+	4.7135E-01	2.9423E-01	2.1604E-01
A++,	7.6937E-04	1.08?9E-01	1.6113E-01	` A++	2.1101E-03	1.3238E-01	1.8460E-01
A+++	1.9047F-10	1.3983E-04	. 6.5637E-04	A+++ ;	2.20765-09	2.7915E-04	1.1897E-03
A++++	1.5853E-21	3.482RE-10	8.7444E-09	A++++	1.4870F-19	1.3832E-09	3.0120E-08
AV	7.4792E-37	1.81106-18	4.0529E-16	AV	8.6373F-34	1.7316E-17	3. 1683E-15
AVI .	7.3737E-57	1.0538F-29	3.5877E-26	IVA	2.02356-52	2.9617E-28	7.6723E-25
AVII	2.9990E-84	6.2324E-45	8.6624E-40	IIVA	7.1270F-78	7.4745E-43	7.0914E-38
ITIVA	0.	1.0132E-63	1.0865E-56	AVIII	. 0.	6.5855F-61	4.2545E-54
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P1 =	5.00E+02 N/SQ-M	, US1= 1.08E+0	4 M/SEC	P1 =	5-00E+02 N/SQ-M	, US1= 1.15E+	D4 M/SEC
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	MOUTHE CHOCK	STANDING SHOCK	REFLECTED SHOCK		MOUSE 51106.	*******	
ρ .	1.71646+03	1.7410E+04	2.4637E+04	P	MOVING SHOCK	STANDING SHOCK	
Ť.	7.2393F+01	1.1538E+02	1.2691F+02	· · · · · · · · · · · · · · · · · · ·	1.9403E+03	1.9146E+04	2.6916E+04
RHO	1.22676+01	. 6.5406E+01	7-8540E+01	, RHD	8-1268F+01	1.2198E+02	1.3493E+02
H.	3.7207E+02	6.7693E+02	8.0442E+02	H .	1.18776+01	6.4523E+01	7.6468E+01
Ä	1.0443E+01	1.3892F+01	1.5167E+01	Ä	4.2155E+02	7.6465E+02	9.0753E+02
ŝ	1.7122F+00	1.8426E+00	1.91856+00	ŝi	1.1053E+01	1.4719E+01	1.6148E+01
ž	1.9328E+00	2.3071E+00	2.4718E+00	2	1.7696E+00	1.9110E+00	1.99126+00
GAME	7.7937E-01	7. 2499E-01	7.3335E-01	GAME	2.0102E+00	2.4327E+00	2.6087E+00
U	3.0745E+01	5.7766E+00	5.7210F+00	U	7.4779E-01 3.2642E+01	7.3014E-01	7.4082E-01
J	3001432.01	3011030100	30.220.00		3.20426401	6.0131E+00	6.0117E+00
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SPECIF	\$	- MOLE FRACTIONS		SPECIES	s	- MOLE FRACTIONS	
-			E 05445 01	_			
E-	4-8263F-01	5.6656E-01	5.9544E-01	F-	5.0253E-01	5.8093F-01	6.1667E-01
A	3.8461F-02	1.2026F-02	8-2314E-03	A.	1.5858E~02	8.3300E-03	5.0505E-03
A+	4.7520E-01	2.7665E-01	1.98806-01	A+	4.6070E-01	2.1761E-01	1.4396E-01
A++	3.7137E-03		1.9594E-01	A++	2.0911E-02	1.9409E-01	2.3024E-01
A+++	8.7696F-09	3.83908-04	1.5861E-03	A+++	6.4227E-07	1.0510E-03	4.0771E-03
A++++	1.8434E-18	2.6274E-09	5.5164E-08	A+++	4.7624E-15	2.0952E-08	4. 2213E-07
AV	4.5037F-32	4.9652F-17	8.6921E-15	AV	1.0260F-26	1.5481E-15	2.6637E-13
AVI	6-1042E-50	1.40615-27	3.4550E-24	AVI	3.17648-42	2.3344E-25	5.8073E-22
AVII	2.36715-74	6.9737E-42	6.1688E-37	IIVA 🗧	1.8577E-63	1.08226-38	9.8374E-34
IIIVA	0.	1.3454E-59	7. 9802E-53	1 1 1 VA	2.6008E-89	2.8168E-55	1.7564E-48
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						US1= 1.20E+0	4 M/SEC
Pl =	5.00E+02 N/SQ-4	, US1= 1.10E+0	4 M/SEC	P1 = >	.00E+02 M/SQ-4	021- 1-505+0	4 4/300
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						STANDING SHOCK	REFLECTED SHOCK
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	SIRMUING SHUCK	KELFECTED SUNCK
ρ.	MOVING SHOCK			Р	MOVING SHOCK 2.1129E+03	2.0907E+04	2.9355E+04
	1.7785E+03	1.784dF+04	2.5195E+04		2.1129E+03		
T	1.7785E+03 - 7.5033E+01	1.7848F+04 1.1719E+02	2-5195E+04 1-2906E+0 <i>2</i>	P T RHO		2.0907E+04	2.9355E+04
T RHO	1.7785E+03 - 7.5033E+01 1.2116E+01	1.784dF+04 1.1719E+02 6.5021E+01	2.5195E+04 1.2906E+02 7.7756E+01	Ť	2.1129E+03 8.6025E+01	2.0907E+04 1.2730E+02	2.9355E+04 1.4189E+02
T RHO H	1.7785E+03 7.5033E+01 1.2116E+01 3.8588E+02	1.784dF+04 1.1719E+02 6.5021E+01 7.0064E+02	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02	T RHO	2.1129E+03 8.6025E+01 1.1896E+01 4.5892E+02	2.0907E+04 1.2730E+02 6.5039E+01	2.9355E+04 1.4189E+02 7.6388E+01
T RHO H	1.7785F+03 7.5033F+01 1.2116F+01 3.8588F+02 1.0685F+01	1.784dF+04 1.1719E+02 6.5021E+01 7.0064E+02 1.4119E+01	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02 1.5437E+01	T RHO H	2.1129E+03 8.6025E+01 1.1896E+01 4.5892E+02 1.1372F+01	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02
T RHO H A S	1.7785F+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0685E+01 1.7289E+00	1.7848F+04 1.1719E+02 6.5021E+01 7.0064E+02 1.4119E+01 1.8621E+00	2.5195E+04 1.2906E+02 7.7756E+01 8.3287E+02 1.5437E+01 1.9394E+00	T RHO H - A S	2.1129E+03 8.6025E+01 1.1896E+01 4.5892E+02 1.1372F+01 1.8087E+00	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00
T RHO H A S Z	1.7785F+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0645E+01 1.7289E+00 1.9564E+00	1.7846F+04 1.1719E+02 6.5021E+01 7.0064E+02 1.4119E+01 1.8621E+00 2.3422E+00	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02 1.5437E+01 1.9394E+00 2.5108E+00	T RHO H - A S 2	2.1129E+03 8.6025E+01 1.1896E+01 4.5892E+02 1.1372F+01 1.8087E+00 2.0647E+00	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00	2.9355E+04 1.4189E+02 7.638BE+01 9.8811E+02 1.6923E+01 2.0432E+00
T RHO H A S	1.7785F+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0685E+01 1.7289E+00	1.7848F+04 1.1719E+02 6.5021E+01 7.0064E+02 1.4119E+01 1.8621E+00	2.5195E+04 1.2906E+02 7.7756E+01 8.3287E+02 1.5437E+01 1.9394E+00	T RHO H - A S	2.1129E+03 8.6025E+01 1.1896E+01 4.5892E+02 1.1372F+01 1.8087E+00	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00
T RHO H A S Z GAME	1.7785F+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0645E+01 1.7289E+00 1.9564E+00 7.7774E-01	1. 7846F+04 1. 1719E+02 6. 5021E+01 7. 0064E+02 1. 4119E+01 1. 8621E+00 2. 3422E+00 7. 2619E-01	2.5195E+04 1.2906E+02 7.7756E+01 8.3287E+02 1.5437E+01 1.9394E+00 2.5108E+00 7.3545E-01	T RHO H - A S 2 GAME	2.1129E+03 8.6025E+01 1.1896E+02 1.1892E+02 1.1372F+01 1.8087E+00 2.0647E+00 7.2808E-01	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E-01
T RHO H A S Z GAME U	1.7785E+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0645E+01 1.7289E+00 1.9564E+00 7.7774E-01 3.1279E+01	1. 7849F+04 1. 1719E+02 6.5021E+01 7. 0064E+02 1. 4119E+01 1. 8621E+00 2. 3422E+00 7. 2619E-01 5. 8369E+00	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02 1.5437E+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00	T RHO H A S Z GAME U	2-1129E+03 8-6025E+01 1-1896E+01 4-5892E+02 1-1372F+01 1-8087E+00 2-0647E+00 7-2808E+01 3-4066E+01	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00	2-9355E+04 1-4189E+02 7-6388E+01 9.8811E+02 1-6923E+01 2-0432E+00 2-7085E+00 7-4526E-01 6-2682E+00
T RHO H A S Z GAME	1.7785E+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0645E+01 1.7289E+00 1.9564E+00 7.7774E-01 3.1279E+01	1. 7846F+04 1. 1719E+02 6. 5021E+01 7. 0064E+02 1. 4119E+01 1. 8621E+00 2. 3422E+00 7. 2619E-01	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02 1.5437E+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00	T RHO H - A S 2 GAME	2-1129E+03 8-6025E+01 1-1896E+01 4-5892E+02 1-1372F+01 1-8087E+00 2-0647E+00 7-2808E+01 3-4066E+01	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01	2-9355E+04 1-4189E+02 7-6388E+01 9.8811E+02 1-6923E+01 2-0432E+00 2-7085E+00 7-4526E-01 6-2682E+00
T RHO H A S Z GAME U	1.7785E+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0645E+01 1.7289E+00 1.9564E+00 7.7774E-01 3.1279E+01	1. 7849F+04 1. 1719E+02 6.5021E+01 7. 0064E+02 1. 4119E+01 1. 8621E+00 2. 3422E+00 7. 2619E-01 5. 8369E+00	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02 1.5437E+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00	T RHO H A S Z GAME U	2-1129E+03 8-6025E+01 1-1896E+01 4-5892E+02 1-1372F+01 1-8087E+00 2-0647E+00 7-2808E-01 3-4066E+01	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E+01 6.2682E+00
T RHO H A S Z GAME U	1.7785F+03 7.5033F+01 1.2116F+01 3.8588F+02 1.0685F+01 1.7289F+00 0.9564F+00 7.7774F-01 3.1279F+01	1. 7846F-04 1.1719E+02 6. 5021E+01 7.0064E+02 1. 4119E+01 1. 8621E+00 2. 3422E+00 7. 2619E-01 5. 8369E+00	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02 1.5437E+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00	T RHO H A S Z GAME U	2.1129E+03 8.6025E+01 1.1896E+01 4.5892E+02 1.1372F+01 1.808TE+00 2.0647E+00 7.2808E-01 3.4066E+01	2.0907E+04 1.2730E+02 6.5039E+01 9.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E-01 6.2682E+00
T RHO H A S Z GAME U SPECTE	1.7785E+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0685E+01 1.7289E+00 1.9564E+00 7.7774E-01 3.1279E+01 \$	1.7845F-04 1.1719E+02 6.5021E+01 7.0064E+02 1.4119E+01 1.8621E+00 2.3422E+00 7.2619E-01 5.8369E+00	2.5195E+04 1.2906E+02 7.7756E+01 8.328F+02 1.543FE+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00	T RHO H A S Z GAME U SPECTES	2-1129E+03 8-6025E+01 1-1896E+01 4-5892E+02 1-1372F+01 1-8087E+00 2-0647E+00 7-2808E-01 3-4066E+01	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00 - MOLE FRACTIONS 6.0398F-01 6.2397E-03 1.7766F-01	2.9355E+04 1.+189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E+01 6.2682E+00
T RHO H S Z GAME U SPECTE	1.7785F+03 7.5033F+01 1.2116F+01 3.8588E+02 1.0645F+01 1.7289F+00 1.7289F+01 3.1279F+01 5 	1.7848F+04 1.1719F+02 6.5021E+01 7.0064F+02 1.4119F+01 1.8621E+00 2.3422E+00 7.2619F-01 5.8369E+00 - MOLE FRACTIONS 5.7305F-01 1.0871E-02 2.5902E-01	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02 1.5437E+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00	T RHO H A S Z GAME U SPECTES E- A	2.1129E+03 8.6025E+01 1.1896E+01 4.5892E+02 1.1372F+01 1.8087E+00 2.0647E+00 7.2808E-01 3.4066E+01	2.0907E+04 1.2730E+02 6.5039E+01 9.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E+01 6.2682E+00 6.3079E-01 3.3442E-03 1.0896E-01 2.4890E-01
T RHO H A S Z GAME U SPECTE E-A A+	1.7785F+03 7.5033F+01 1.2116F+01 3.8588F+02 1.0685F+01 1.7289F+00 1.9564F+00 7.7774F-01 3.1279F+01 \$ 4.8885F-01 2.885ZF-02 4.7574F-01 6.5581F-03	1.7846F+04 1.1719E+02 6.5021E+01 7.0064E+02 1.4119E+01 1.8621E+00 2.3422E+00 7.2619E-01 5.8369E+00 - MOLE FRACTIONS 5.7305E-01 1.0871E-02 2.5962E-01 1.5594E-01	2.5195E+04 1.2906E+02 7.7756E+01 8.328F+02 1.543FE+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00	T RHO H A S Z GAME U SPECTES E- A A+	2-1129E+03 8-6025E+01 1-1896E+01 4-5892E+02 1-1372F+01 1-8087E+00 2-0647E+00 7-2808E+01 3-4066E+01	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00 - MOLE FRACTIONS 6.0398F-01 6.2397E-03 1.7766F-01	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E-01 6.2682E+00
T RHO H A S Z Z GAME U SPECTE E-A A+A++	1.7785E+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0685E+01 1.7289E+00 7.7774E-01 3.1279E+01 5 	1.7846F+04 1.1719E+02 6.5021E+01 7.0064E+02 1.4119E+01 1.8621E+00 2.3422E+00 7.2619E-01 5.8369E+00 - MOLE FRACTIONS 5.7305E-01 1.0871E-02 2.5962E-01 1.5594E-01 5.1671E-04	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02 1.5437E+01 1.9394E+00 2.5108E+00 7.3545E+01 5.7962E+00	T RHO H A S Z GAME U SPECTES E- A A+ A++	2-1129E+03 8-6025E+01 1.1896E+01 4-5892E+02 1.1372F+01 1.8087E+00 2.0647E+00 7.2808F-01 3.4066F+01 5.1567E-01 1.0816E-02 4.3136E-01 4.2148F-02	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00 - MOLE FRACTIONS 6.0398E-01 6.2397E-03 1.7766E-01 2.1005E-01	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E-01 6.2682E+00 6.3079E-01 3.3442E-03 1.0896E-01 2.4890E-01 8.0049E-03 1.9177E-06
T RHO H A S Z Z GAME U SPECTE E-A A++ A+++	1.7785F+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0645E+01 1.7289E+00 1.754E+01 3.1279E+01 \$	1.7848F+04 1.1719E+02 6.5021E+01 7.0068E+02 1.4119E+01 1.8621E+00 2.3422E+00 7.2619E-01 5.8369E+00 - MOLE FRACTIONS 5.7305E-01 1.0871E-02 2.5962E-01 1.5594E-01 5.1671E-04 4.8100E-09	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02 1.5437E+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00	T RHO H A S Z GAME U SPECTES E- A A+ A++ A+++	2-1129E+03 8.6025E+01 1.1896E+01 4.5892E+02 1.1372F+01 1.8087E+00 7.2808E-01 3.4066E+01 5-1567E-01 1.0816E-02 4.3136E-01 4.2148E-02 4.0216E-06	2.0907E+04 1.2730E+02 6.5039E+01 9.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00 - MOLE FRACTIONS 6.0398E-01 6.2397E-03 1.7766E-01 2.1005E-01 2.1005E-01	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E+01 6.2682E+00
T RHO H A S Z GAME U SPECTE E-A A++++ A++++ A++++ AV	1.7785F+03 7.5033F+01 1.2116F+01 3.8588E+02 1.0685E+01 1.7289F+00 1.9764E+00 7.7774F-01 3.1279E+01 \$ 4.8885F-01 2.885E-02 4.7574E-01 6.5581E-03 3.5384F-08 2.3446E-17 2.4172E-30	1.7846F+04 1.1719E+02 6.5021E+01 7.0064E+02 1.4119E+01 1.8621E+00 2.3422E+00 7.2619E-01 5.8369E+00 - MOLE FRACY IONS 5.7305E-01 1.0871E-02 2.5962E-01 5.1671E-04 4.8190E-09 1.3448E-16	2.5195E+04 1.2906E+02 7.7756E+01 8.328F+02 1.543FE+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00 	T RHO H A S Z GAME U SPECTES E— A A+ A++ A+++ A+++	2-1129E+03 8-6025E+01 1.1896E+01 4-5892E+02 1.1372F+01 1.8087E+00 2-0647E+00 7-2808E+01 3.4066E+01 5-1567E-01 1.0816E-02 4.3136E-01 4.2148E-02 4.0216E-06 1.4473E-13	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00 - MOLE FRACTIONS 6.0398E-01 6.2397E-03 1.7766E-01 2.1005E-01 2.0714E-03 8.9193E-08	2.9355E+04 1.+189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E+01 6.2682E+00
T RHC H A S Z GAME U SPECIE E-A A+++ A+++ AVI	1.7785F+03 7.5033E+01 1.2116E+01 3.8588E+02 1.0645E+01 1.7289E+00 1.7564E+00 7.7774E-01 3.1279E+01 5	1.7848F+04 1.1719E+02 6.5021E+01 7.0064E+02 1.4119E+01 1.8621E+00 2.3422E+00 7.2619E+01 5.8369E+00 - MOLE FRACTIONS 5.7305E+01 1.0871E-02 2.5962E-01 1.5594E-01 5.1671E-04 4.8100E-09 1.3448E-16 6.1550E-27	2.5195E+04 1.2906E+02 7.7756E+01 8.3287F+02 1.5437E+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00 6.0172E-01 7.2177E-03 1.8249E-01 2.0649E-01 2.0649E-01 2.0648E-08 2.2904E-14 1.4674E-23	T RHO H A S Z GAME U SPECTES E- A A+ A+++ A++++	2-1129E+03 8-6025E+01 1.1896E+01 4-5892E+02 1.1372F+01 1.8087E+00 2.0647E+00 7.2808E-01 3.4066E+01 5.1567E-01 1.0816E-02 4.3136E-01 4.2148E-02 4.0216E-06 1.4473E-13 2.2914E-24	2.0907E+04 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00 - MOLE FRACTIONS 6.0398E-01 6.2397E-03 1.7766E-01 2.1005E-01 2.0714E-03 8.9193E-08 1.7671E-14	2.9355E+04 1.4189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E+01 6.2682E+00
T RHO H A S Z GAME U SPECTE E-A A++++ A++++ A++++ AV	1.7785F+03 7.5033F+01 1.2116F+01 3.8588E+02 1.0685E+01 1.7289F+00 1.9764E+00 7.7774F-01 3.1279E+01 \$ 4.8885F-01 2.885E-02 4.7574E-01 6.5581E-03 3.5384F-08 2.3446E-17 2.4172E-30	1.7846F+04 1.1719E+02 6.5021E+01 7.0064E+02 1.4119E+01 1.8621E+00 2.3422E+00 7.2619E-01 5.8369E+00 - MOLE FRACY IONS 5.7305E-01 1.0871E-02 2.5962E-01 5.1671E-04 4.8190E-09 1.3448E-16	2.5195E+04 1.2906E+02 7.7756E+01 8.328F+02 1.543FE+01 1.9394E+00 2.5108E+00 7.3545E-01 5.7962E+00 	T RHO H A S Z GAME U SPECTES E— A A+ A++ A++ A+++ AVV	2-1129E+03 8-6025E+01 1-1896E+01 4-5892E+02 1-1372F+01 1-8087E+00 2-0647E+00 7-2808E+01 3-4066E+01 5-1567E-01 1-0816E-02 4-3136E-01 4-2148E-02 4-0216E-06 1-4473E-13 2-2914E-24 7-9894E-39	2.0907E+06 1.2730E+02 6.5039E+01 8.3278E+02 1.5373E+01 1.9590E+00 2.5251E+00 7.3515E-01 6.2397E+00 - MOLE FRACTIONS 6.0398E-01 2.1005E-01 2.1005E-01 2.0714E-03 8.9193E-08 1.7671E-14 8.9761E-24	2.9355E+04 1.+189E+02 7.6388E+01 9.8811E+02 1.6923E+01 2.0432E+00 2.7085E+00 7.4526E+01 6.2682E+00

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MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 2.2949E+03 2.2955F+04 3.2241E+04	P 2.6832E+03 2.7552E+04 3.8850E+04
T 8.9882F+01 1.3318E+02 1.4945F+02	T 9.6366F+01 1.4654E+02 1.6541E+02
RHO 1.2023F+01 6.5837E+01 7.6952E+01	RHO 1.2367E+01 6.7213E+01 7.8613E+01
H 4.9795E+02 9.0448E+02 1.0737E+03	H 5.8086E+02 1.0571E+03 1.2576E+03
A 1.1721E+01 1.6068E+01 1.7688E+01	A 1.2463E+01 1.7493E+01 1.9174E+01
\$ 1.8478E+00	S 1-9264E+00 2-1000E+00 2-1927E+00
Z 2.1236E+00 2.6189E+00 2.8034E+00	2 2.2514E+00 2.7973E+00 2.9877E+00
GAME 7.1979E-01 7.4048E-01 7.4675E-01	GAME 7.1599E-01 7.4649E-01 7.4392E-01
# 3.5522E+01 6.4959E+00 6.5503E+00	U 3.8458E+01 7.0861E+00 7.1661E+00
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SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
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E- 5.2911E-01 6.1802E-01 6.4329E-01	E- 5.5583E-01 6.4252E-01 6.6530E-01
A 8.2074E-03 4.4963E-03 2.1433E-03	A 5.3372E-03 (2.0480E-03 8.4272E-04
A+ 3.9626E-011.4093E-01 8.0757E-02	A+ 3.2192E-01 8.1887E-02 4.3293E-02
A++ 6-6402F-02 2-3256E-01 2-5890E-01	A++ , 1.1683E-01 2.6001E-01 2.4980E-01
A+++ 1.4244E-05 3.9898E-03 1.4899E-02	A+++ 8.1798F-05 1.3527E-02 4.0670E-02
A++++ 1.5972E-12 3.7527E-07 8.1342E-06	A++++ 4.8734E-11 6.0975E-06 9.8933E-05
AV 1.0724E-22 2.0227E-13 4.2822E-11	AV 2.7613E-20 2.4345E-11 3.5122E-09
AVI 2.1914E-36 3.5280E-22 1.2741E-18	AVI 7.7119E-33 5.0124E-19 1.1078E-15
AVII 3.6894E-55 4.2735E-34 6.6757E-29	AVII 4.5591E-50 1.5669E-29 1.2417E-24
AVIII 3.5119E-78 5.0513F-49 6.6226E-42	AVIII 2.7589E-71 8.3200E-43 4.4992E-36
•	•
01 - 5 005103 N/SO W	DI - 5 005:03 W450 W W51- 1 405:04 W455
P1 = 5.00E+02 N/SQ-M, US1= 1.30E+04 M/\$&C	P1 = 5.00E+02 N/SQ-M, US1= 1.40E+04 M/SEC
P1 = 5.00E+02 N/SQ-M, US1= 1.30E+04 M/SRC	P1 = 5.00E+02 N/SQ-M, US1= 1.40E+04 M/SEC
P1 = 5.00E+02 N/SQ-M, US1= 1.30E+04 M/SRC MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK	Pl = 5.00E+02 N/SQ-M, US1= 1.40E+04 M/SEC . MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2-4850E+03 2.5184F+04 3-543ZE+04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03:048. 3.0029E+04: 4.2425E+04 T 9.9369E+01 1.5371E+02 1.7326E+02;
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2-4850E+03 2-5184E+04 3-5432E+04 T 9-3249E+01 1-3961E+02 1-573TE+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03:048. 3.0029E+04: 4.2425E+04 T 9.9369E+01 1.5371E+02 1.7326E+02;
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2-4850E+03 2.5184E+04 3.5432E+04 T 9.3249E+01 1.3961E+02 1.5737E+02 RHD 1.2191E+01 6.6581E+01 7.7765E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03:-4.3.029E+04: 4.2425E+04 T 9.9369E+01 1.5371E+02 1.7326E+02;
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2.4850E+03 2.5184E+04 3.5432E+04 T 9.3249F+01 1.3961E+02 1.5737E+02 RHD 1.2191E+01 6.6581E+01 7.7765E+01 H 5.3869E+02 9.7929F+02 1.1637E+03	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03'.4h. 3.0029E+04: 4.2425E+04 T 9.9369E+01 1.5371E+02 1.7326E+02; RHO 1.2536E+01 6.7778E+01 7.9497E+01
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2-4850E+03 2.5184F+04 3.5432E+04 T 9.3249F+01 1.3961E+02 1.5737F+02 RHO 1.2191E+01 6.6581E+01 7.7765E+01 H 5-3869E+02 9.7929F+02 1.1637E+03 A 1.2087F+01 1.678E+01 1.8431E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03:45.3,0028E+04: 4.2425E+04 T 9,9369E+01 1.5371E+02 1.7326E+02: RHO 1.2536E+01 6.7778E+01 7.9497E+01 H 6.2472E+02 1.1379E+03 1.3548E+03 A 1.2853E+01 1.8174E+01 1.9923F+01.
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2-4850F+03 2.5184F+04 3.5432F+04 T 9.3249F+01 1.3961E+02 1.5737F+02 RHO 1.2191E+01 6.6581E+01 7.7765E+01 H 5.3869E+02 9.7929F+02 1.1637E+03 A 1.2087F+01 1.6784E+01 1.8431E+01 S 1.8859E+00 2.0534E+00 2.1427E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2.4850E+03 2.5184E+04 3.5432E+04 T 9.3249F+01 1.3961E+02 1.5737E+02 RHD 1.2191E+01 6.6581E+01 7.7765E+01 H 5.3869E+02 9.7929F+02 1.1637E+03 A 1.2087F+01 1.6784E+01 1.8431E+01 S 1.8859E+00 2.0534E+00 2.1427E+00 Z 2.1861F+00 2.7992E+00 2.8959E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03:-4h. 3.0029E+04: 4.2425E+04 T; 9.9369E+01 1.5371E+02 1.7326E+02; RHO 1.2536E+01 6.7778E+01: 7.9497E+01 H 6.2472E+02 1.1379E+03 1.3548E+03 A 1.2853E+01 1.8174E+01 1.9923E+01; S 1.9661E+00 2.1459E+00 2.2422E+00 Z 2.3192E+00 2.8823E+00 3.080ZE+00
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2.4850E+03 2.5184E+04 3.5432E+04 T 9.3249E+01 1.3961E+02 1.5737E+02 RHD 1.2191E+01 6.6581E+01 7.7765E+01 H 5.3865E+02 9.7929F+02 1.1637E+03 A 1.2087F+01 1.6784E+01 1.8431E+01 S 1.8859E+00 2.0534E+00 2.1427E+00 Z 2.1861F+00 2.7092E+00 2.8953E+00 GAME 7.1664E-01 7.4477E-01 7.4554E-01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2-4850E+03 2-5184E+04 3-5432E+04 T 9-3249E+01 1-3961E+02 1-5737E+02 RHD 1-2191E+01 6-6581E+01 7-7765E+01 H 5-3865E+02 9-7929F+02 1-1637E+03 A 1-2087F+01 11-678E+01 1-8431E+01 S 1-8859E+00 2-0534E+00 2-1427E+00 Z 2-1861E+00 2-7092E+00 2-8955E+00 GAME 7-1664E-01 7-4477E-01 7-4554E-01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03:-4h. 3.0029E+04: 4.2425E+04 T; 9.9369E+01 1.5371E+02 1.7326E+02; RHO 1.2536E+01 6.7778E+01: 7.9497E+01 H 6.2472E+02 1.1379E+03 1.3548E+03 A 1.2853E+01 1.8174E+01 1.9923E+01; S 1.9661E+00 2.1459E+00 2.2422E+00 Z 2.3192E+00 2.8823E+00 3.080ZE+00
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P. 2-4850E+03	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK PEFLECTED SHOC	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2.4850E+03 2.5184E+04 3.5432E+04 1.3761E+02 1.5737E+02 1.2191E+01 6.6581E+01 7.7765E+01 1.2191E+01 6.6581E+01 7.7765E+01 1.3865E+02 9.7929F+02 1.1637E+03 1.2097E+01 1.6437E+03 1.8865E+00 2.0534E+00 2.1427E+00 2.21861F+00 2.7092E+00 2.8953E+00 2.8953E+00 U 3.6997E+01 6.7814E+00 6.8564E+00 C C C C C C C C C	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SH9CK STANDING SHOCK PEFLECTED SH9CK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03':4h. 3.0029E+04: 4.2425E+04 T 9.9369E+01 1.5371E+02 1.7326E+02: RHO 1.2536E+01 6.7778E+01 7.9497E+01 H 6.2472E+02 1.1379E+03 1.3548E+03 A 1.2853E+01 1.8174E+01 1.9923F+01. S 1.9661E+00 2.1459E+00 2.2422E+00 Z 2.3192E+00. 2.8823E+00, 3.0802E+00 GAME 7.1681E-01 7.4551E-01 7.4377E-01 U: 3.9930E+01 7.3981E+00 7.4614E+00 SPECIES
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2.4850E+03 2.5184E+04 3.5432E+04 T 9.3249E+01 1.3961E+02 1.5737E+02 RHD 1.2191E+01 6.6581E+01 7.7765E+01 H 5.3865E+02 9.7929E+02 1.1637E+03 A 1.2087E+01 1.678E+01 1.8431E+01 S 1.8859E+00 2.0534E+00 2.1427E+00 Z 2.1861E+00 2.7092E+00 2.8953E+00 C 2.8953E+00 C 2.8953E+00 C 3.6987E+01 6.7814E+00 6.8564E+00 C C C C C C C C C	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03: 4h 3.0029E+04: 4.2425E+04 T 9.9369E+01 1.5371E+02 1.7326E+02: RHO 1.2536E+01 6.7778E+01 7.9497E+01 H 6.2472E+02 1.379E+03 1.3548E+03 A 1.2853E+01 1.8174E+01 1.9923E+01 S 1.9661E+00 2.1459E+00 2.2422E+00 Z 2.3192E+00 2.8823E+00 3.0802E+00 GAME 7.1681E-01 7.4551E-01 7.4377E-01 U: 3.9930E+01 7.3981E+00 7.4614E+00 SPECIES TOTAL
MOVING SH9CK STANDING SHOCK PEFLECTED SH9CK P 2.4850E+03 2.5184E+04 3.5432E+04 1.3761E+02 1.5737E+02 1.3761E+01 6.6581E+01 7.7765E+01 1.291E+01 6.6581E+01 7.7765E+01 1.637E+03 1.2987E+01 1.6784E+01 1.8431E+01 1.8431E+01 1.8431E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8455E-01 1.8455E-01 1.7455E-01 1.7455E-01 1.86987E+01 1.7455E-01 1.7455E-01 1.8564E+00 1.	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2.4850E+03 2.5184E+04 3.5432E+04 T 9.3249E+01 1.3961E+02 1.5737E+02 RHD 1.2191E+01 6.6581E+01 7.7765E+01 H 5.3869E+02 9.7929E+02 1.1637E+03 A 1.2087F+01 1.678E+01 1.8431E+01 S 1.8869E+00 2.0534E+00 2.1427E+00 Z 2.1861E+00 2.7092E+00 2.8953E+00 GAME 7.1664E-01 7.4477E-01 7.4554E-01 U 3.6987E+01 6.7814E+00 6.8564E+00 SPECIES MULE FRACTIONS	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03: 4h. 3.0028E+04: 4.2425E+04 T 9.9369E+01 1.5371E+02 1.7326E+02: RHO 1.2536E+01 6.7778E+01 7.9497E+01 H 6.2472E+02 1.1379E+03 1.3548E+03 A 1.2853E+01 8174E+01 1.9923E+01 S 1.9661E+00 2.1459E+00 2.2422E+00 Z 2.3192E+00 2.8823E+00 3.0802E+00 GAME 7.1681E-01 7.4551E-01 7.4377E-01 U: 3.9930E+01 7.3981E+00 7.4614E+00 SPECIES TOTAL TO
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2.4850E+03 2.5184E+04 3.5432E+04 T 9.3249E+01 1.3961E+02 1.5737E+02 RHD 1.2191E+01 6.6581E+01 7.7765E+01 H 5.3860E+02 9.7929F+02 1.1637E+03 A 1.2087F+01 1.6784E+01 1.8431E+01 S 1.8869E+00 2.0534E+00 2.1427E+00 Z 2.1861E+00 2.7092E+00 2.8955E+00 GAME 7.1664E+01 7.4477E-01 7.4554E-01 U 3.6987E+01 6.7814E+00 6.8564E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03'4h. 3.0029E+04: 4.2425E+04 T 9.9369E+01 1.5371E+02 1.7326E+02: RHO 1.2536E+01 6.7778E+01 7.0497E+01 H 6.2472E+02 1.379E+03 1.3548E+03 A 1.2853E+01 1.8174E+01 1.9923F+01. S 1.9661E+00 2.1459E+00 2.2422E+00 Z 2.3192E+00 2.8823E+00 3.0802E+00 GAME 7.1681E-01 7.4551E-01 7.4377E-01 U. 3.9930E+01 7.3981E+00 7.4614E+00 SPECIES T T T T T T T T T
MOVING SH9CK STANDING SHOCK PEFLECTED SH9CK P 2.4850E+03 2.5184E+04 3.5432E+04 1.37642E+01 1.3761E+02 1.5737E+02 1.5737E+02 1.5737E+02 1.5737E+02 1.5737E+02 1.6784E+01 7.7765E+01 1.637E+03 1.2087E+01 1.6784E+01 1.8431E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.8451E+01 1.4471E-01 1.4554E-01 1.4554E-01 1.3479E-03 1	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03:4n. 3.0029E+04:
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2.4850E+03 2.5184E+04 3.5432E+04 T 9.3249E+01 1.3961E+02 1.5737E+02 RHD 1.2191E+01 6.6581E+01 7.7765E+01 H 5.3865E+02 9.7929F+02 1.1637E+03 A 1.2087F+01 1.6478E+01 1.8431E+01 S 1.8859E+00 2.0534E+00 2.1427E+00 Z 2.1861F+00 2.7092E+00 2.8953E+00 GAME 7.1664E-01 7.4477E-01 7.4554E-01 U 3.6987E+01 6.7814F+00 6.8564E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03; 4 h. 3,0028E+04; 4.2425E+04 T 9,9369E+01 1.5371E+02 1.7326E+02; RHO
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.4850E+03 2.5184E+04 3.5432E+04 T 9.3249E+01 1.3961E+02 1.5737E+02 RHD 1.2191E+01 6.6581E+01 7.7765E+01 H 5.3860E+02 9.7929E+02 1.1637E+03 A 1.2087E+01 1.6784E+01 1.8431E+01 S 1.8869E+00 2.0534E+00 2.1427E+00 2.2 2.1861E+00 2.7092E+00 2.8955E+00 GAME 7.1664E-01 7.4477E-01 7.4554E-01 U 3.6987E+01 6.7814E+00 6.8564E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+033.48.3.0028E+04:
MOVING SHOCK STANDING SHOCK PEFLECTED SHOCK P 2.4850E+03 2.5184E+04 3.5432E+04 T 9.3249E+01 1.3961E+02 1.5737E+02 RHD 1.2191E+01 6.6581E+01 7.7765E+01 H 5.3865E+02 9.7929F+02 1.1637E+03 A 1.2087F+01 1.6478E+01 1.8431E+01 S 1.8859E+00 2.0534E+00 2.1427E+00 Z 2.1861F+00 2.7092E+00 2.8953E+00 GAME 7.1664E-01 7.4477E-01 7.4554E-01 U 3.6987E+01 6.7814F+00 6.8564E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 2.8889E+03:14h. 3.0028E+04: 4.2425E+04 T 9.9369E+01 1.5371E+02 1.7326E+02: RHO 1.2536E+01 6.7778E+01 7.9497E+01 H 6.2472E+02 1.1379E+03 1.3548E+03 A 1.2853E+01 8174E+01 1.9923E+01. S 1.9661E+00 2.1459E+00 2.2422E+00 Z 2.3192E+00 2.8823E+00 3.0802E+00 GAME 7.1681E-01 7.4551E-01 7.4377E-01 U: 3.9930E+01 7.3981E+00 7.4614E+00 SPECIES TOTAL TOT

TABLE I. - Continued

p - 500 N/ m²

P1 = 5	6.00E+02 N/SO-4	!, US1= 1.45E+0	04 M/SEC	P1 = 5	.00E+02 N/SQ-	usi= 1.55E+0	04 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3-1022F+03	3.2606F+04	4.6124E+04	P	3.5497E+03	3. 7929E+04	5.3747E+04
T	1.0235E+02	1.6087F+02	1.8080E+02	Ť	1.0854F#02	1.7469E+02	1.9605E+02
RHO	1.2686E+01	6.8349E+01	8.0432E+01	ŘНО	1.29116+01		8.1553E+01
н	6.70176+02	1.2219E+03	1.4553E+03	H /		1.3977E+03	1.6662E+03
Ā	1.32575+01	1.8835E+C1	2.0675E+01		7.6581F+02	2.0166E+01	2.2270E+01
ŝ				A	1.4118E+01		
Ž	2.00625+00	2.1916E+00	2.2899E+00	S	2.0867F+00	2.2922E+00	2.3860E+00
	2.38915+00	2.9654E+00	3.1717E+00	ž	2.5329F+00	3.1325E+00	3.3617E+00
GAME	7.1868E-01	7.4362E-01	7.4542E-01	GAME:	7.2499E-01	7.4318E-01	7.5251E-01
U	4.1400F+01	7.6950E+00	7.7480E+00	U	4-4318F+01	8.2681E+00	8.3180E+00
SPECIES	·	- MOLE FRACTIONS		SPFCIES		- MOLE FRACTIONS	
E-	5.8144E-01	6.6277E-01	6.8471E-01	€-	6.0520E-01	6.8077E-01	7.0253E-01
Ā	3.5791E-03	8.6261E-04	3.4655E-04	à '	2.2962E-03		1.4160E-04
A+	2.4883F-01	4.5689E-02	2.3763E-02	Ã÷	1.8073E-01	2.6022E-02	1.2839E-02
Δ++	1.6585E-01	2.5500E-01	2. 1321E-01	A++ -	2.1097E-01	2.2416E-01	1.6629E-01
A+++	2.9892E-04	3.5607E-02	7.73518-02	A+++	9.1246E-04	6.8284F-02	1. 1570E-01
A++++	6.79585-10	6.5724E-05	6.1642F-04	A++++	7-14316-09	3.9403E-04	2.4979E-03
AV	2.1416E-18	1.58648-09	1.0001E-07	AV	1.09736-16	4.0831F-08	L. 4526E-06
AVI	4.9242E-30	3.0150E-16	2.0867E-13				1.4896E-11
IIVA	5.1028E-46	1.69645-25	2.6423E-21	AVI	1.7682E-27	4.7300E-14	
TITVA	8.6353E-66	2.67398-37	1.66978-31	11VA	2.5648E-42 9.4688E-61	2.7266E-22 6.6584F-33	1.4232E-18 9.7987E-28
		:			e. '		
P1 = 5	.00E+02 N/SQ-H	. US1= 1.50E+0	4 M/SEC	P1 = 5	.00E+02 N/SQ-M	. US1= 1-60E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.32245+03	3.5220E+04	4.9864E+04	P	3.7839E+03	4.0596E+04	5.7555E+04
f	1.0543E+02	1.6784E+02	1.8837E+02	T	1.1195F+'02	1.8133E+02	2.0387E+02
RHO	1.2802E+01	6.8843E+01	8.1055E+01	RHO	1.2965E+01	6.9589E+01	8.1626E+01
Н	7.1720E+02	1.3083E+03	1.5590E+03	н	8.1600E+02	1.4898E+03	1.7768E+03
A	1.3683E+01	1.9492E+01	2.1459F+01	. 4	1:4590E+01	2.0849E+01	2.3099E+01
\$	2.04716+00	2.2369E+00	2.3381E+00	S	2.1278E+00	2.3269E+00	2.43406+00
ž	2.4616F+00	3.04825+00	3.2659E+00	ž	2.6070E+00	· 3. 2172E+00	3.4587E+00
. GAME	7,2147E-01	7.4263E-01	7.4850E-01	GAME	7.29415-01	7.4512E-01	7.5671E-01
Ü	4,2861E+01	7. 98205+00	8.0306E+00	U	4.5765E+01	8.5388E+00	8.6107E+00
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
-	5.9377E-01	6 71045-01	6 0201E-01				1 10075 01
E~	2.8816E-03	6.7194E-01	6.9381E-01	€- '	6.1642E-01	6.8917F-01	7. 1087E-01
A		5.6688E-04	2.2270E-04	A	1.7657E-03	2.50846-04	8.8208E-05
Δ+	2.1347E-01	3.4417E-02	1.7559E-02	A+	1.4879E-01	1.9733F-02	9. 23176-03
A++	1.8935E-01	2.4188E-01	1.9029E-01	A++	2.3146F-01	2.0391F-01	
A+++	5.3329E-04	5.1026F-02	9.6838E-02	A+++	1.5701E-03	8.6130E-02	1.3292E-01
A++++	2.2783E-39	1.7144E-04	1.2899E-03	A++++	2.3097E-08	8.0915E-04	4.5460E-03
AV	1.6115F-17	8.9957E-09	4.0415F-07	AV	7.9409E-16	1.5638E-07	4.7605E-06
IVA	1.0018E-28	4.3657E-15	1.9154E-12	IVA	3.4355E-26	3.9322E-13	1.01676-10
AVII	4.0106F-44	8.3571E-24	6.8896E-20	IIVA	L.8799E-40	6.09968-21	2.4437E-L7 ·
IIIVA	3.30°2E-63	5.5705E-35	1.4950E-29	AVIII	3.237TE-58	4.7881E-31	5.0050E-26

p, - 500 N/ m²

P1 =	5.00E+02 N/SQ-M	. US1= 1.65E+0	4 M/SEC	P1 = 5	-00E+02 N/SQ-M	. US1= 1.75E+0	4 M/SEC
		•					
٠.			REFLECTED SHOCK	_	MOVING SHOCK		
P T	4.0248E+03	4. 3250E+04	6.1371E+04	P	4.5250E+03	4.8329E+04	6.8795E+04
	1.1563E+02	1.8790E+02	2.1192E+02	Ţ	1.2413E+02	2.0147E+02	2.2836E+02
RHO	1.2987E+01	6.9697E+01	8.1427E+01	RHD	1.2922E+01	6.8934E+01	8.0301E+01
н	8.6776E+02	1.5846E+03	1.8913E+03	H	9.7593E+02	1.7812E+03	2.1308E+03
A	1.50878+01	2.1546E+01	2.3938E+01	A	1.6130E+01	2.3014E+01	2.5566E+01
S	2.1685E+00	2.3711E+00	2.4821E+00	S	2.2491E+00	2.4616E+00	2.5782E+00
Z	2.6802E+00	3.3026E+00	3.5565E+00	Z	2.8211E+00 .	3-4799E+00	3.7516E+00
GAME	7.3442E-01	7.4810E-01	7.6028E-01	GAME	7.4298E-01	7.5544E-01	7-6294E-01
U	4.7204E+01	8. 8130E+00	8.9227E+00	U	5.0040E+01	9.3926E+00	9.5974E+00
SPECIE	s	- MOLE FRACTIONS		SPECIES	; 	- MOLE FRACTIONS	
_							
E-	6.2690E-01	6.9720E-01	7.1883E-01	E-	6.4553E-01	7.1264E-01	7.3345E-01
A	1.3136E-03	1.6724F-04	5.3752E-05	A	6.4099E-04	6.9863E-05	l.9194E-05
A+	1.1937E-01	1.4916E-02		A+	7.0120E-02	8.1175E-03	3.1196E-03
A++ '	2.4972E-01	1.8238E-01	1.1938E-01	A++	2.7573E-01	1.3775E-01	7.9920E-02
A+++ ·	2.6911E-03	1.0380E-01	1.4736F-01	Α+++	7.9821E-03	1.3670E-01	1.6358E-01
A++++	7.5599E-08	1.5300E-03	7.8503E-03	A++++	8.8495E-07	4.7261E-03	1.9804E-02
AV	5.9305E-15	5.2592E-07	1.4471E-05	AV	3.9770E-13	4.8153E~06	1.0384E-04
AVI .	7.0518E-25	2.7080E-12	6.2569E-10	IVA	4.0094E-22	9.5804E-11	1.6518E-08
AVII	1.49705-38	1.0443E-19	3.6328E-16	AVII.	1.4734E-34	2.0285E-17	4.8286E-14
1 I IVA	1.24648-55	2.4018E-29	2.1097E-24	IIIVA	3.4105F-50	3.4818E-26	1.8910E-21
P1 =	5.00E+02 N/SQ-M	, ,US1= 1.70E+0	4 M/SEC	P1 = 5	5.00E+02 N/SQ-M	. US1= 1.80E+0	4 M/SEC
Pl =	5.00E+02 N/SO-4	, .US1= 1.70E+0	4 M/SEC	P1 = 5	5.00E+02 N/SQ-M	, US1= 1.80E+0	4 M/SEC
P1 =			4 M/SEC REFLECTED SHOCK	P1 = 5			4 M/SEC
P1 =			•	P1 = 9	MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	_	MOVING SHOCK 4.7851E+03		REFLECTED SHOCK 7.2331E+04
P	MOVING SHOCK 4.2716E+03 1.1969E+02	STANDING SHOCK 4.5813E+04 1.9467E+02	REFLECTED SHOCK 6-5071E+04 2-2005F+02	P	MOVING SHOCK 4.7851E+03 1.2895E+02	STANDING SHOCK 5.0790E+04 2.0842E+02	REFLECTED SHOCK 7.2331E+04 2.3624E+02
P T	MOVING SHOCK 4-2716E+03 1-1969E+02 1-2968E+01	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01	P T	MOVING SHOCK 4.7851E+03 1.2895E+02 1.2850E+01	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01	REFLECTED SHOCK 7.2331E+04 2.3624E+02 7.9632E+01
P T RHO	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01 2.0082E+03	P T RHO .	MOVING SHOCK 4.7851E+03 1.2859E+02 1.2859E+01 1.0324E+03	STANDING SHOCK 5-0790E+04 2-0842E+02 6-8290E+01 1-8833E+03	REFLECTED SHOCK 7-2331E+04 2-3624E+02 7-9632E+01 2-2527E+03
P T RHO H	MOVING SHOCK 4-2716E+03 1.1969E+02 1.2968E+01 9-2106E+02 1.5606E+01	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.2278E+01	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01 2.0082E+03 2.4758E+01	P T RHD H	MOVING SHOCK 4.7851E+03 1.2895E+02 1.2850E+01 1.0324E+03 1.6637E+01	STANDING SHOCK 5-0790E+04 2-0842E+02 6-8290E+01 1-8833E+03 2-3752E+01	REFLECTED SHOCK 7-2331E+04 2-3624E+02 7-9632E+01 2-2527E+03 2-6312E+01
P T RHO H	MOVING SHOCK 4-2716E+03 1-1969E+02 1-2968E+01 9-2106E+02 1-5606E+01 2-2091E+00	STANDING SHOCK 4-5813E+04 1.9467E+02 6-9389E+01 1.6816E+03 2.2278E+01 2.4168E+00	REFLECTED SHOCK 6-5071E+04 2-2005F+02 8-0938E+01 2-0082E+03 2-4758E+01 2-5299E+00	P T RHO H A S	MOVING SHOCK 4.7851E+03 1.2895E+02 1.2850E+01 1.0324E+03 1.6637E+01 2.2893E+00	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01 1.883E+03 2.3752F+01 2.5063E+00	REFLECTED SHOCK 7-2331E+04 2-3624E+02 7-9632E+01 2-252TE+03 2-6312E+01 2-6242E+00
P T RHO H A S	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.2278E+01 2.4168E+00 3.3916E+00	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01 2.0082E+03 2.4758E+01 2.5299E+00 3.6536E+00	P T RHO H A S Z	MOVING SHOCK 4.7851E+03 1.2895E+02 1.2855E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.8877E+00	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01 1.8833E+03 2.3752F+01 2.5063E+00 3.5684E+00	REFLECTED SHOCK 7-2331E+04 2.3624E+02 7.9632E+01 2-2527E+03 2.6312E+01 2.6242E+00 3.8449E+00
P T RHO H A S	MOVING SHOCK 4-2716E+03 1-1969E+02 1-2968E+01 9-2106E+02 1-5606E+01 2-2091E+00	STANDING SHOCK 4-5813E+04 1.9467E+02 6-9389E+01 1.6816E+03 2.2278E+01 2.4168E+00	REFLECTED SHOCK 6-5071E+04 2-2005F+02 8-0938E+01 2-0082E+03 2-4758E+01 2-5299E+00	P T RHO H A S	MOVING SHOCK 4.7851E+03 1.2895E+02 1.2850E+01 1.0324E+03 1.6637E+01 2.2893E+00	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01 1.883E+03 2.3752F+01 2.5063E+00	REFLECTED SHOCK 7-2331E+04 2-3624E+02 7-9632E+01 2-252TE+03 2-6312E+01 2-6242E+00
P T RHO H A S Z GAME	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.2278E+01 2.4168E+00 3.3916E+00 7.5175E-01	REFLECTED SHOCK 6-5071E+04 2-2005F+02 8-0938E+01 2-0082E+03 2-4758E+01 2-5299E+00 3-6536E+00 7-6244E-01	P T RHO H A S Z GAME	MOVING SHOCK 4.7851E+03 1.2895E+01 1.2850E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.887.7E+00 7.4334E-01	STANDING SHOCK 5.0740E+04 2.0842E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01	REFLECTED SHOCK 7-2331E+04 2-3624E+02 7-9632E+01 2-2527E+03 2-6312E+01 2-6242E+00 3-8449E+00 7-6223F-01
P T RHO H A S Z GAME	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.2278E+01 2.4168E+00 3.3916E+00 7.5175E-01	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01 2.0082E+03 2.4758E+01 2.5299E+00 3.6536E+00 7.6244E-01 9.2238E+00	P T RHO H A S Z GAME	MOVING SHOCK 4.7851E+03 1.2895E+02 1.2855E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.8877E+00 7.4334E-01 5.1447E+01	STANDING SHOCK 5.0740E+04 2.0842E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01	REFLECTED SHOCK 7.2331E+04 2.3624E+02 7.9632E+01 2.2527E+03 2.6312E+01 2.6242E+00 3.8449E+00 7.6223E-01 9.8564E+00
P T RHO H S S Z GAME U	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.2278E+01 2.4168E+00 3.3916E+00 7.5175E-01 9.1001E+00	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01 2.0082E+03 2.4758E+01 2.5299E+00 3.6536E+00 7.6244E-01 9.2238E+00	P T RHD H A S Z GAME U	MOVING SHOCK 4.7851E+03 1.2895E+02 1.2855E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.8877E+00 7.4334E-01 5.1447E+01	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01 9.6934E+00	REFLECTED SHOCK 7.2331E+04 2.3624E+02 7.9632E+01 2.2527E+03 2.6312E+01 2.6242E+00 3.8449E+00 7.6223E-01 9.8564E+00
P T RHO H A S Z GAME U	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.2278E+01 2.4168E+00 3.3916E+00 7.5175E-01 9.1001E+00	REFLECTED SHOCK 6-5071E+04 2-2005F+02 8-0938E+01 2-0082E+03 2-4758E+01 2-5299E+00 3-6536E+00 7-6244E-01 9-2238E+00	P T RHO H A S Z GAME U	MOVING SHOCK 4.7851E+03 1.2895E+02 1.2859E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.887.7E+00 7.4334E-01 5.1447E+01	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01 9.6934E+00	REFLECTED SHOCK 7.2331E+04 2.3624E+02 7.9632E+01 2.2527E+03 2.6312E+01 2.6242E+00 3.8449E+00 7.6223F-01 9.8564E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.278E+01 2.4168E+00 3.3916E+00 7.5175E-01 9.1001E+00	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01 2.0082E+03 2.4758E+01 2.5299E+00 3.6536E+00 7.6244E-01 9.2238E+00	P T RHD H A S Z GAME U SPECIES	MOVING SHOCK 4.7851E+03 1.2895E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.887.TE+00 7.4334E-01 5.1447E+01	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01 9.6934E+00	REFLECTED SHOCK 7.2331E+04 2.3624E+02 7.9632E+01 2.2527E+03 2.6312E+01 2.6242E+00 3.8449E+00 7.6223F-01 9.8564E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01 S	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.2278E+01 2.4168E+00 3.3916E+00 7.5175E-01 9.1001E+00 MOLE FRACTIONS 7.0515E-01 1.0858E-04	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01 2.0082E+03 2.4758E+01 2.5299E+00 3.6536E+00 7.6244E-01 9.2238E+00	P T RHD H A S Z GAME U SPECIES	MOVING SHOCK 4.7851E+03 1.2895E+02 1.2859E+01 1.0324E+03 1.6637E+01 2.2893E+00 7.4334E-01 5.1447E+01	STANDING SHOCK 5-0790E+04 2-0842E+02 6-8290E+01 1-8833E+03 2-3752F+01 2-5063E+00 3-5684F+00 7-5856E+01 9-6934E+00	REFLECTED SHOCK 7.2331E+04 2.3624E+02 7.9632E+01 2.2527E+03 2.6312E+01 2.6242E+00 3.8449E+00 7.6223F-01 9.8564E+00
PTRHOHASSSSAMEU	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01 S 6.3664E-01 9.3654E-04 9.2837E-02 2.6694E-01	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.278E+01 2.4168E+00 3.3916E+00 7.5175E-01 9.1001E+00 - MOLE FRACTIONS 7.0515E-01 1.0858E-04 1.1053E-02 1.5973E-01	REFLECTED SHOCK 6-5071E+04 2-2005F+02 8-0938E+01 2-0082E+03 2-4758E+01 2-5299E+00 3-6536E+00 7-6244E-01 9-2238E+00 7-2630E-01 3-2344E-05 4-5407E-03 9-8508E-02	P T RHD H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 4.7851E+03 1.2895E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.887.7E+00 7.4334E+01 5.1447E+01	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01 9.6934E+00 - MOLE FRACTIONS 7.1976F-01 4.4173E-05 5.8736E-03 1.1682E-01	REFLECTED SHOCK 7.2331E+04 2.3624E+02 7.9632E+01 2.2527E+03 2.6312E+01 2.6242E+00 3.8449E+00 7.6223F-01 9.8564E+00 7.3991E-01 1.1705E-05 2.1754E-03 6.4848E-02
P T RHO H A S Z GAME U SPECIE E- A A+ A++	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01 S	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.2278E+01 2.4168E+00 3.3916E+00 7.5175E-01 9.1001E+00 - MOLE FRACTIONS 7.0515E-01 1.0858E-04 1.1053E-02 1.5973E-01 1.2119E-01	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01 2.0082E+03 2.4758E+01 2.5299E+00 3.6536E+00 7.6244E-01 9.2238E+00 7.2630E-01 3.2344E-05 4.5407E-03 9.8508E-02 1.5779F-01	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 4.7851E+03 1.2859E+01 1.2859E+01 1.0324E+03 1.667FE+01 2.2893E+00 2.887.7E+00 7.4334E-01 5.1447E+01	STANDING SHOCK 5.0790E+04 2.0942E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01 9.6934E+00 - MOLE FRACTIONS 7.1976F-01 4.4173E-05 5.8736E-03 1.1682E-01 1.4976E-01	REFLECTED SHOCK 7-2331E+04 2-3624E+02 7-9632E+01 2-2527E+03 2-6312E+01 2-6242E+00 3-8449E+00 7-6223F-01 9-8564E+00 7-3991E-01 1-1705E-05 2-1754E-03 6-4848E-02 1-6439E-01
P T RHO H A S Z GAME U SPECIE E- A A+ A+++ A++++	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01 S	STANDING SHOCK 4.5813E+04 1.9467E+02 6.9389E+01 1.6816E+03 2.2278E+01 2.4168E+00 3.3916E+00 7.5175E-01 9.1001E+00 - MOLE FRACTIONS 7.0515E-01 1.0858E-04 1.1053E-02 1.5973E-01 2.7685E-01 2.7685E-01	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01 2.0082E+03 2.4758E+01 2.5299E+00 3.6536E+00 7.6244E-01 9.2238E+00 7.2630E-01 3.2344E-05 4.5407E-03 9.8508E-02 1.5779F-01 1.2789E-02	P T RHD H A S Z GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 4.7851E+03 1.2855E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.887.TE+00 7.4334E-01 5.144.TE+01 6.5371E-01 4.2269E-04 5.16.02E-02 2.8070E-01 1.3565E-02 3.0569E-06	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01 9.6934E+00 - MOLE FRACTIONS 7.1976F-01 4.4173E-05 5.8736E-03 1.1682E-01 1.4976E-01 7.7229E-03	REFLECTED SHOCK 7.2331E+04 2.3624E+02 7.9632E+01 2.2527E+03 2.6312E+01 2.6242E+00 3.8449E+00 7.6223F-01 9.8564E+00 7.3991E-01 1.1705E-05 2.1754E-03 6.4848E-02 1.6439E-01 2.8422E-02
P T RHO H A S Z GAME U SPECIE E-A A++ A+++ A++++ AV	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01 S 6.3664E-01 9.3654E-04 9.2837E-02 2.6694E-01 4.6394E-03 2.5610E-07 4.7456E-14	STANDING SHOCK	REFLECTED SHOCK 6-5071E+04 2-2005F+02 8-0938E+01 2-0082E+03 2-4758E+01 2-5299E+00 3-6536E+00 7-6244E-01 9-2238E+00 7-2630E-01 3-2344E-05 4-5407E-03 9-8508E-02 1-5779F-01 1-2789E-02 4-0235E-05	P T RHD H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++	MOVING SHOCK 4.7851E+03 1.2895E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.8877E+00 7.4334E-01 5.1447E+01 6.5371E-01 4.2269E-04 5.1602E-02 2.8070E-01 1.3565E-02 3.0569E-06 3.3767E-12	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01 9.6934E+00 - MOLE FRACTIONS 7.1976F-01 4.4173E-05 5.8736E-03 1.1682E-01 1.4976E-01 7.7229E-03 1.3083E-05	REFLECTED SHOCK 7.231E+04 2.3624E+02 7.9632E+01 2.2527E+03 2.6312E+01 2.6242E+00 3.8449E+00 7.6223F-01 9.8564E+00 7.3991E-01 1.1705E-05 2.1754E-03 6.4849E-02 1.6439E-01 2.8422E-02 2.3452E-04
P T RHO H A S Z GAME U SPECIE E-A A+++++ A++++ AV AVI	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01 S 6.3664E-01 9.3654E-04 9.2837E-02 2.6494E-01 4.6394E-03 2.5610E-07 4.7456E-14 1.6168E-23	STANDING SHOCK	REFLECTED SHOCK 6.5071E+04 2.2005F+02 8.0938E+01 2.0082E+03 2.4758E+01 2.5299E+00 3.6536E+00 7.6244E-01 9.2238E+00 7.2630E-01 3.2344E-05 4.5407E-03 9.8508E-02 1.5779E-01 1.2789E-02 4.0235E-05 3.3869E-09	P T RHO H A S Z Z GAME U SPECIES E- A A++ A+++ AV AVI	MOVING SHOCK 4.7851E+03 1.2859E+02 1.2859E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.887.7E+00 7.4334E-01 5.1447E+01 6.5371E-01 4.2269E-04 5.1602E-02 2.8070E-01 1.3565E-02 3.0569E-06 3.3767E-12 1.0222E-20	STANDING SHOCK 5.0790E+04 2.0942E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01 9.6934E+00 - MOLE FRACTIONS 7.1976E-01 4.4173E-05 5.8736E-03 1.1682E-01 1.4976E-01 7.7229E-03 1.3083E-05 4.8983E-10	REFLECTED SHOCK 7-2331E+04 2-3624E+02 7-9632E+01 2-2527E+03 2-6312E+01 2-6242E+00 3-8449E+00 7-6223F-01 9-8564E+00 7-3991E-01 1-1705E-05 2-1754E-03 6-4849E-02 1-6439E-01 2-8422E-02 2-3452E-04 6-5636E-08
P T RHO H A S Z GAME U SPECIE E-A A++ A+++ A++++ AV	MOVING SHOCK 4.2716E+03 1.1969E+02 1.2968E+01 9.2106E+02 1.5606E+01 2.2091E+00 2.7521E+00 7.3943E-01 4.8626E+01 S 6.3664E-01 9.3654E-04 9.2837E-02 2.6694E-01 4.6394E-03 2.5610E-07 4.7456E-14	STANDING SHOCK	REFLECTED SHOCK 6-5071E+04 2-2005F+02 8-0938E+01 2-0082E+03 2-4758E+01 2-5299E+00 3-6536E+00 7-6244E-01 9-2238E+00 7-2630E-01 3-2344E-05 4-5407E-03 9-8508E-02 1-5779F-01 1-2789E-02 4-0235E-05	P T RHD H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++	MOVING SHOCK 4.7851E+03 1.2895E+01 1.0324E+03 1.6637E+01 2.2893E+00 2.8877E+00 7.4334E-01 5.1447E+01 6.5371E-01 4.2269E-04 5.1602E-02 2.8070E-01 1.3565E-02 3.0569E-06 3.3767E-12	STANDING SHOCK 5.0790E+04 2.0842E+02 6.8290E+01 1.8833E+03 2.3752E+01 2.5063E+00 3.5684E+00 7.5856E-01 9.6934E+00 - MOLE FRACTIONS 7.1976F-01 4.4173E-05 5.8736E-03 1.1682E-01 1.4976E-01 7.7229E-03 1.3083E-05	REFLECTED SHOCK 7.231E+04 2.3624E+02 7.9632E+01 2.2527E+03 2.6312E+01 2.6242E+00 3.8449E+00 7.6223F-01 9.8564E+00 7.3991E-01 1.1705E-05 2.1754E-03 6.4849E-02 1.6439E-01 2.8422E-02 2.3452E-04

P1 - 14-00E+03 N	34-117 031- 2:002-40) H) 3EC	FI - 1.0	02103 11734 11	031- 2.402.40	3 117 32 0
MOVING SHO P 4.7899E+0 T 1.2892E+0		REFLECTED SHOCK 2.6164E+02 2.8425E+01	Ρ '' (OVING SHOCK 6.9072E+01 1.8180E+01	STANDING SHOCK 1.2796E+02 2.3359E+01	REFLECTED SHOCK 3.6936E+02 3.4849E+01
RHO 3.7155E+0		9-1839E+00		3.7994E+00	5.4765E+00	1.0416E+01
H 1.2892E+0		2.9035E+01		1.8181F+01	2. 3424E+01	3.9748E+01
A 3.5905F+0		5.0681E+00		4.2619E+00	4.7829E+00	5.2297E+00
S 1.1085E+0		1.12305+00		1.1297E+00	1.1305E+00	1-1442E+00
Z 1.0000E+0		1.0022E+00		1.0000E+00	1.0002E+00	1.0175E+00
GAME 1.0000E+0		9.0161E-01		9.9912E-01	9. 7908E-01	7.7127E-01
U . 4.5391E+0		3.0652E+00		5.4902F+00	3. 7965E+00	3.1473E+00
0 4.339[[3. 231 72 700	3200322400	0	J.4702(KOU	3. 19032400	3114132400
SPECIES	MOLE FRACTIONS	·	SPECIES		- MOLE FRACTIONS	
E		2 22225 02		5 01535 O/	2 44405 :04	1 73345 03 1
E- 4.6606E-		2.2328E-03	E-	5.9152E-06	2.4469E-04	1.7226E-02
A 1.0000E		9. 9553E-01	A	9.9999E-01	9.9951E-01	9.6555E-01
4-6606E-		2. 2328E-03	A+	5.9152F-06	2.4469E-04	1.7226E-02
A++ 3.6237E-		1.1850F-13	Δ++	7-4015E-23	4.0532E-17	1.4847E-10
A+++ 4.1563F-		3.0627E-32	A+++	1.1720E-51	5.3357E-40	1.6333E-25
A++++ 0.	. 0.	2.0850E-61	A++++	0.	2.2111E-75	3.4507E-49
AV 0.	0 🖫	. 0•	AV	0.	0.	4.7082E-80
AVI · 0.	9.	0.	. AVI	0.	0.	0.
AVII 0.	0.	0.	I I VA	0.	0.	.0.
AVIII O.	0.	0•	TITVA	0.	0.	´ 0.
	•					
					*	
					•	*
P1 = 1.00E+03 N/S	0-M. US1= 2.20E+0	M/SEC	P1 = 1.00	0E+03 N/SO-M	. US1= 2.60E+0	3 M/SEC
		4				
MOVING SHO	OCK STANDING SHOCK	REFLECTED SHOCK	· M(OVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P 5.8003E+0	1 1-0494E+02	3.1547E+02	P 1	8.1129E+01	1.5745E+02	4.2664E+02
T 1.5416E+0	1.9659E+01	3.2138F+01	τ :	2.1170F+01	2.7333E+01	3.7049E+01
RHO 3.7624E+0	0 5.3380E+00	9.7364E+00	RHO	3.8319E+00	5.7501E+00	1.1185E+01
H 1.5416E+0		3.4404E+01	H .	2.1189E+01	2.7813E+01	4.5393E+01
A 3.9262E+0		5.1462E+00		4.5837F+00	4.9956E+00	5.3358E+00
S 1.11958+0		1.1340F+00		1.1393E+00	1.1402E+00	1.1548E+00
Z 1.0000E+0		1.0082E+00		1.0001E+00	1.0018F+00	1-0296E+00
GAME 9.9995E-0		8-1737F-01		9.9236E-01	9.1143E-01	7.4639E-01
U 5.0154E+0		3-1712F+00		5.9656E+00	3.9624E+00	3.1032E+00

SPECIES	MOLE FRACTIONS	·	*******		- MOLE FRACTIONS	
	MOLE PRACTIONS		SPECIES		- MULE FRACTIONS	
E- 2.6061E-			'E- `	7.0616E-05	1.7862E-03	2.8731E-02
A: 1.0000E+		9.8374E-01	A	9.9986E-01	9.9643E-01	9.4254E-01
A+	07 1-9716E-05	8.1308E-03	A+	7.0616F-05	1.7862E-03	2.8731E-02
A++ 1.7337E-	27 5.84556-21	1.0503E-11	A++	4.5154E-19	3.9124E-14	9.3886E-10
A+++ 1.4827E-		. 5.0693E-28.		.3.3737E-44	1.8595E-33	9.61286-24
A++++ 0.	0.	9.9643E-54	A++++	1.0744E-83	1.7955E-64	8.9194E-46
AV 0.	0.	3.2736E-89	AV	0.	0.	3.2935E-75
AVI 0.	o .	0.] VĀ	o.	0.	0.
AVII O.	0.	0.	AVIT	0.	0 2	0.
AVII 0.	0. 0.	0. 0.	11VA - 111VA	0.	0. 0.	0. 0.

P1 = 1.	**************************	• 021= 5-80E+0	3 M/SEC	P1 = 1	1.00E+U3 N/3U-H	, 031- 3-208+0	3 4/356
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	9.4315E+01	2.0034E+02	4.9036E+02	P	1.2536E+02	3.2826E+02	6.7009E+02
T	2.4320E+01	3.1191E+01	3.8958E+01	T	3.0131E+01	3.7006E+01	4.2509E+01
RHO .	3.8762E+00	6.3755E+00	1.2057E+01	RHO	4.1340E+00	8.5842E+00	1.4591E+01
H·	2.4454E+01	3.3238E+01	5.14516+01	H	3.1881E+01	4.6405E+01	6.5726E+01
				Ä			5.7403E+00
Á.	4.8391E+00	5.0769E+00	5.4564E+00	Š	5.0077E+00	5.3173E+00	
S	1.1483E+00	1.1497E+00	1.1657E+00	-	1.1652E+00	1.1693F+00	1.1891E+00
Z	1.0005F+00	1.00745+00	. 1.0439E+00		1.0064F+00	1.0333E+00	1.0803E+00
	9.6241E-01:	8.2026E-01	7.3205E-01	GAME	8.2698F-01	7.3939E-01	7.1749E-01
Ui + i	6.4510E+00	3.9070E+00	3.0519E+00 ,	U ,	7.5224E+00	3.6076E+00	2.9877E+00
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
371.0103		- HUER PRACTIONS		3-1011		- 7000 1 10113	•
8 -	5-0185E-04	7.3772F-03	4.2083E-02	E-	6.3407E-03	3.2269E-02	7.4372E-02
Α.,	9.9900E-01	9.85255-01	9.1583E-01	A	9.8732E-01	9.3546E-01	8.5126E-01
A+	5.0185E-04	7.3772F-03	4.2083E-02	A+ .	6.3407E-03	3.2269E~02	7.4372E-02
A++	3.8150E-16	5.5601E-12	3.8485E-09	A++	2.4219E-12	· 1.1760E-09	3.5319E-08
	, 7.0789E-38	9.5507E-29	2.1874E-22	A+++	1.1754E-29	1.3268E-23	3.1488E-20
A++++	4.5305E-72	2.3310E-55	3.0105E-43	A++++	3.9444E-57	1.3663E-45	3.1201E-39
			4. 1895E-71	AV	0.	6.3547E-75	1.1118E-64
AV.	0.	1.5845E-89					,
AVI	0.	0.	0.	IVA	0.	0.	0.
AVII	, 0∙	o •	0.	IIVA	0 •	0.	0.
AVIII	0.	0.	0.	IIIVA	0.	0.	0.
P1 = 1	.00E+03 N/SQ-M	. US1= 3.00E+0	3 M/SEC	P1 = 1	1.00E+03 N/SQ-M	. US1= 3.40E+0	3 M/SEC
	MOVENS SHOCK.	STANDING SHOCK	REFLÉCTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	1.0879E+02	2.5591E+02	5.6730E+02	P	1.4410E+02	4.2009E+02	8.0563E+02
Τ	2.7393E+01	3.4348E+01	4.0735E+01	Ŧ	3.2426E+01	3.9348E+01	4.4309E+01
RHO	.3.9629E+00	7.3172F+00	1.3130F+01	RHD	4.3855E+00	1.0149E+01	1.6484E+01
н	2.7993E+01	3.9423E+01	5.8149E+01	н.	3.6116E+01	5.4128E+01	7.4331E+01
Α.,	4.9626F+00	5.1765F+00		Α ,	5.0606E+00	5.4803E+00	5.9067E+00
Š	1.1568F+00	1.1593E+00	1.1771E+00	ŝ	1.1737E+00	1.1800E+00	1.2017E+00
ž				ž .	1.0133E+00	1.0519E+00	1.1030E+00
	1.00225+00	1.0182F+00	1.0607E+00	GAME			7.1388E-01
GAME .	8.9706E-01	7.6619E-01	7.2319E-01	GAME	7.7940E-01	7.2562E-01	
U	6.9551E+00	3.7527E+00	3.0260E+00	U	8.146BE+00	3.5119F+00	2.9629E+00
SPECIES		- MOLE FRACTIONS		SPECIES	s	- MOLE FRACTIONS	
E_	2 20725-02	1 70775 00	5 721 25 202	€-	1.3165E-02	4.9351E-02	9.3389E-02
E- , ,,,,	2.2072E-03		5.7212E-02				8.1322E-01
A	9.9559E-01	9.6425E-01	8.8558E-01	A	9.7367E-01		
A+ .	2.2072E-03	1.7877E-02	5.7212F-02	A+	1.3165E-02	4.9351E-02	9.3389E-02
A++ ',	6.28158-14	1.31376-10	1.2424E-08	A++	3.1614E-11	6.0578F-09	9.1292E-08
A+++ '	4.5447F-33	1.0251E-25	2.9764E-21	A+++	3.2125E-27	5.2638E-22	2.7356E-19
A++++	.3.4207E-63	1.5486F-49	3.7853E-41	A++++	1.3091E-52	1.3238E-42	1.7592E-37
AV	0.	2.5595E-81	9. 0907E-68	AV	7.8348E-86	3.8882E-70	6.7146E-62
AVI	ō.	0.	0.	AVI	0.	0.	0.
AVII		~ •					
	0_		0.	AVII	0.	0.	0.
AVIII	o. o.). 0.	0. 0.	IIVA IIIVA	. 0.	0. 0.	0. 0.

PI =	1.00E+03 N/SQ-M	1, US1= 3.60E+0	3 M/SEC	P1 = 1	1.00E+03 N/SQ-N	, US1= 4.00E+0	3 M/SEC
			REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	1.6438E+02	5.3145E+02	9.6896E+02	Ρ.	2.0944E+02	8.1666E+02	. 1.3829E+03 .
T	3.4331E+01	4.14595+01	4.6068E+01	T	3.7413E+01	4.5255E+01	4.9494E+01 -
RHO	4.6822E+00	1.1947E+01	1.8650E+01	RHO	5.3507E+00	1.60985+01	2.3619E+01
H	4-0628E+01	6.2433E+01	8.3640F+01	Н	5.0462E+01	8.0667E+01	1.04275+02
A	5.1364E+00	5.6522E+00	6.0808E+00	A	5.3250F+00	6.0080E+00	6.4465E+00
S	1.18255+00	1.1914E+00	1.2150E+00	S	1.2011E+00	1.2163E+00	1.2438E+00
Z	1.0226E+00	1.07305+00	1.1278F+00	ž	1.0463E+00	1.1210E+00	1.1830E+00
GAME	7.5147E-01	7.1817F-01	7.1170E-01	GAME	7.2441E-01	7.1151E-01	7.09778-01
U	8.7847E+00	3.4302E+00	2.9519E+00	U	1.0087F+01	3. 3368F+00	2.9581E+00
SPECIE	s	- MOLE FRACTIONS		SPECIES	;	- MOLE FRACTIONS	.
E-	2.2097E-02	6.8007E-02	1.1331E-01	F	4.4213E-02	1.0795E-01	1.5468E-01
Ā	9.5581E-01	8.6399E-01		À .		7.8411E-01	
Ā+ ·	2.2097E-02	6.8007E-02	1.1331E-01	м А+	4.4213E-02	1.07958-01	1.5468E-01
A++	2.02245-10	2.19926-08	2.12015-07	A++			
A+++	1.9776E-25	9.7634E-21	1.9039E-18	A+++	2.6006F-09		9.9952E-07 A
A++++	4.1218E-49	3.0675E-40			5.55438-23	9.0440E-19	5.4776E-17
AV	1.2596E-80	2.1701E-66	6.8056E-36	A+++	1.39156-44	1.55198-36	3.7851E-33
	_		2.5029E-59	AV	2.0360E-73	2.1010F-60	6.49548-55
AVI	0.	0.	3.5553E-89	AV S	0.	3.49298-91	1.0720E-82
AVII	0.	0 .	0.	AVII	0.	o.	Q• ·
AVIII	0.	o.	0.	AVIII	0.	0.	0.
		•					
						-	
						•	•
				•			
- A	1-00E+03 N/SO-M	, US1= 3.80E+0	3 4/555				
P1 -	1-00C+03 N/30-N	* 031- 3*20E+0	3 47360	P1 = 1	*-025/4 E0+300	. US1= 4.20E+0	3 M/SEC .
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MONTHS SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	1.86215+02	6. 6260F+02	1.1615F+03	P			
ī	3.5967E+01	4.3407E+01	4.7797E+01	Ţ	2.34026+02	9.9096F+02	1.6333E+03
RHO					3.8720E+01	4.7007E+01	5.1162E+01
	5.0084E+00	1.39276+01	2:1048E+01	RHO	5.7013E+00	1.8373E+01	2.6319E+01
н	4.5414E+01	7.12636+01	9.3642E+01	H -	5.5764E+01	9.0533E+01	1-1549E+02
A	5.2268E+00	5.8281F+00	6.2613E+00	A .	5.4274E+00	6.1889F+00	6.6356E+00
S	1.1916F+00	1.2034E+00	1.2290E+00	\$	1.2111E+00	1.2298E+00	, 1.2592E+00
2	1.0337F+00	1.0960E+00	1.1545E+00	Z	1.06018+00	1.14748+00	1.2129E+00
GAME	7-3482F-01	7.1395E-01	7.1043E-01	GAME	7.1762E-01	7.10135-01	7.0953E-01
·U	9.4342E+00	3.3847E+00	2.9509E+00	U	1.07396+01	3.3220E+00	2.9724E+00
SPECIF	s	- MOLF FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	3.25865-02	8.7632F-02	1.3386E-01	€-	5.6692F-02	1.28498-01	1.7556E-01
A	9.3483F-01	8.2474E-01	7.3229E-01	Ā	8.8662E-01	7.4304E-01	6.4888E-01
A+	3.2586E-02	8.7632E-02	1.3385E-01	Ã+	5.6692F-02	1.2848E-01	1.7556F-01
A++	8.3408E-10	6.3584F-08	4.52548-07	A++	6.6982E-39	3.4804E-07	1.6859E-06
A+++	4.4672E-24	1.1080E-19	1.10415-17	A+++	4.4967E-22	5.6701F-18	2.3829E-16
A++++	1.2861F-46	2.9441E-38	1.8595E-34	A++++	6.1738E-43	4.9990E-35	5.9150E-32
AV	1.1062E-76	3.3327E-63	5.1122E-57	AV	6.0294E-71	5.9041E-58	4.8671E-53
AVI	0.	0.	8. 6698E-86	AVI	0.	3.54475-87	2.9632E-80
AVII	0.	0.	0.	AVI			2.9632E-8U.
IIIVA	0.	0.	0.		0.	o.	
M T L I I	0.	٠.	.	AVITI	0.	J.	0.

 $p_1 = 1 \text{ kN/ m}^2$

P1 =	1-00E+03 N/SQ-M	. US1= 4.40E+0	3 M/SEC	P1 = 1	1.00F+03 N/SQ-M	US1= 4.80E+0	3 M/SEC
					•		
	MOVING SHOCK		REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	2.5989E+02	1.1878E+03	1.9129E+03	P	3-1541F+02	1.6522E+03	2.5602E+03
T	3.9925E+01	4.8696E+01	5.2811E+01	T	4.2117E+01	5.1947E+01	5.6067E+01
RHD	6.0549F+00	2.0755E+01	2.9112E+01	RHO	6.7590E+00	2.57596+01	3-4849E+01
н	6.1318E+01	1.0089E+02	1.2728E+02	н	7.3177F+01	1.2309E+02	1.5244E+02
A	5.5322E+00	6.3718E+00	6.8284E+00	A .	5.7467F+00	6.7444E+00	7-22435+00
5	1.2215E+00	1.2441E+00	1.2752E+00	S	1.2435E+00	1.2744E+00	1.3089E+00
ž	1.0751E+00	1.1753E+00	1.2443E+00	Ž	1-1080E+00	1.2347E+00	1.3103E+00
GAME	7-1304E-01	7.0942E-01	7.0959E-01	GAME	7-0769E-01	7.09198-01	7.1040E-01
U	1.1389E+01	3.3159E+00	2.9930E+00	U	1.2679E+01	3.3198E+00	3.0375E+00
•		30000	2011202100			34 31 702 - 00	3103132100
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	6.9821E+02	1.4912E-01	1.9632E-01	€-	9.7470E-02	1.9009E-01	2.3683E-01
Ā		7.0177E-01	6. 0737E-01	· E-	8.0506E-01		
	8.6036E-01			Ã÷	9.7469E-02	6.1981E-01	5.2634E-01
A+	6.9821E-02	1.4912E-01	1.9631F-01			1.9009E-01	2.3682E-01
A++	1.5088E-08	7.0330E-07	3.0126E-06	A++	5.7880E-08	2.3819E-06	8.5803E-06
4+++	2.7914E-21	2.9205E-17	9. 3919E-16	A+++	5.7776E-20	5.1431E-16	1.1220E-14
A++++	1.9450E-41	1.0838E-33	8.0385E-31	A++++	5.5730E-39	2.4513E-31	8.5577E-29
AV .	1.9482F-68	7.8993E-56	3.6596E-51	AV	1.7394E-64	5.149ZE-52	6.6292E-48
AVI	0-	3.7628E-84	3.5927E-77	IVA	0.	1.9134E-78	2.1673E-72
IIVA	0.	0.	0.	AVII -	0-	3.	0.
I I I VA	0.	0.	0.	AVIII	0.	0.	0.
P1 =	1.00E+03 N/SQ-M	• US1= 4.60E+0	3 M/SEC	P1 = 1	L.00E+03 N/SQ-M	• US1= 5.00E+0	3 M/SEC
P1 =	1.00E+03 N/SQ-M	• US1= 4.60E+0	3 M/SEC	P1 = 1	L-00E+03 N/SQ-M	• US1= 5.00E+0	3 M/SEC
P1 =			3 M/SEC	•	L.OOE+O3 N/SQ-M		3 M/SEC
P1 =			•	P1 = 1 P			
,	MOVING SHOCK 2-8703E+02	STANDING SHOCK	REFLECTED SHOCK	•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK	STANDING SHOCK 1.4097E+03	REFLECTED SHOCK 2.2203E+03	. ρ	MOVING SHOCK 3.4529E+02	STANDING SHOCK 1.9242E+03	REFLECTED SHOCK 2.9364E+03
P T	MOVING SHOCK 2-8703E+02 4-1052E+01	STANDING SHOCK 1.4097E+03 5.0345E+01	REFLECTED SHOCK 2-2203E+03 5-4432E+01	Р Т	MOVING SHOCK 3.4529E+02 4.3135E+01	STANDING SHOCK 1.9242E+03 5.3547E+01	REFLECTED SHOCK 2.9364E+03 5.7725E+01
P T RHG H	MOVING SHOCK 2.8703E+02 4.1052E+01 6.4084E+00 6.7122E+01	STAND ING SHOCK 1.4097E+03 5.0345E+01 2.3248E+01 1.1177E+02	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01	P T RHO	MOVING SHOCK 3.4529E+02 4.3135E+01 7.1098E+00	STANDING SHOCK 1.9242E+03 5.3547E+01 2.8375E+01	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02
P T RHG H	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387E+00	STANDING SHOCK 1.4097E+03 5.0345E+01 2.3248E+01 1.1177E+02 6.5575E+00	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00	Р Т RHO Н	MOVING SHOCK 3-4529E+02 4-3135E+01 7-1098E+00 7-9498F+01	STANDING SHOCK 1.9242E+03 5.3547E+01 2.8375E+01 1.3502E+02	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00
P T RHD H A S	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-638TF+00 1-2323E+00	STANDING SHOCK 1-4097E+03 5-0345E+01 2-3248E+01 1-1177E+02 6-5575E+00 1-2589E+00	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2916E+00	P T RHO H A	MOVING SHOCK 3.4529E+02 4.3135E+01 7.1098E+00 7.9498F+01 5.8563E+00 1.2551E+00	STANDING SHOCK 1.9242E+03 5.3547E+01 2.8375E+01 1.3502E+02 6.9362E+00 1.2905F+00	REFLECTED SHOCK 2-9364E+03 5-7725E+01 3-7804E+01 1-6605E+02 7-4322E+00 1-3268E+00
P T RMO H A S	MOVING SHOCK 2-8703E+02 4-1052E+01 6-408E+00 6-7122E+01 5-6387E+00 1-2323E+00	STANDING SHOCK 1.4097E+03 5.0345E+01 2.3248E+01 1.1177E+02 6.5575E+00 1.2589E+00 1.2044E+00	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2916E+00 1.2765E+00	P T RHO H A S	MOVING SHOCK 3-4529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-2551E+00 1-1259E+00	STANDING SHOCK 1.9242E+03 5.3547E+01 2.8375E+01 1.3502E+02 6.9362E+00 1.2905F+00 1.2666E+00	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.77804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00
P T RHD H A S Z GAME	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387E+00 1-2323E+00 1-0911E+00 7-0989E-01	STANDING SHOCK 1. 4097E+03 5. 0345F+01 2. 3248E+01 1. 1177E+02 6. 5575E+00 1. 2589E+00 1. 2044E+00 7. 0915F-01	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2916E+00 1.2765E+00 7.0988E-01	P T RHO H A S Z	MOVING SHOCK 3-4529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-2551E+00 1-1259E+00 7-0618E-01	STANDING SHOCK 1-9242E+03 5-3547E+01 2-8375E+01 1-3502E+02 6-9362E+00 1-2905F+00 1-2664E+00 7-0947E-01	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00 7.1115E-01
P T RMO H A S	MOVING SHOCK 2-8703E+02 4-1052E+01 6-408E+00 6-7122E+01 5-6387E+00 1-2323E+00	STANDING SHOCK 1.4097E+03 5.0345E+01 2.3248E+01 1.1177E+02 6.5575E+00 1.2589E+00 1.2044E+00	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2916E+00 1.2765E+00	P T RHO H A S Z GAME	MOVING SHOCK 3-4529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-2551E+00 1-1259E+00	STANDING SHOCK 1.9242E+03 5.3547E+01 2.8375E+01 1.3502E+02 6.9362E+00 1.2905F+00 1.2666E+00	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.77804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00
P T RHD H A S Z GAME	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387F+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01	STANDING SHOCK 1. 4097E+03 5. 0345F+01 2. 3248E+01 1. 1177E+02 6. 5575E+00 1. 2589E+00 1. 2044E+00 7. 0915F-01	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2916E+00 1.2765E+00 7.0988E-01 3.0027E+00	P T RHO H A S Z GAME	MOVING SHOCK 3-\$529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-2551E+00 1-1259E+00 7-0618E-01 1-3329E+01	STANDING SHOCK 1-9242E+03 5-3547E+01 2-8375E+01 1-3502E+02 6-9362E+00 1-2905F+00 1-2664E+00 7-0947E-01	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00 7.1115E-01 3.0766F+00
P T RMO H A S Z GAME U	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387F+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01	STANDING SHOCK 1.4097E+03 5.0345E+01 2.3248E+01 1.1177E+02 6.5575E+00 1.2589E+00 1.2044E+00 7.0915E-01 3.3028E+00	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2916E+00 1.2765E+00 7.0988E-01 3.0027E+00	P T RHO H A S Z Game U	MOVING SHOCK 3-\$529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-2551E+00 1-1259E+00 7-0618E-01 1-3329E+01	\$TANDING SHOCK 1-9242E+03 5-354TE+01 2-8375E+01 1-3502E+02 6-9362E+00 1-2905F+00 1-2664E+00 7-094TE-01 3-3322E+00	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00 7.1115E-01 3.0766F+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387E+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01	STANDING SHOCK 1. 4097E+03 5. 0345F+01 2. 3248E+01 1.1177E+02 6. 5575E+00 1. 2589E+00 1. 2549E+00 7. 0915F-01 3. 3028E+00	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2916E+00 1.2765E+00 7.0988E-01 3.0027E+00	P T RHO H A S Z GAME U	MOVING SHOCK 3-\$529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-2551E+00 1-1259E+00 7-0618E-01 1-3329E+01	STANDING SHOCK 1-9242E+03 5-354TE+01 2-8375E+01 1-3502E+02 6-9362E+00 1-2905F+00 1-266FE+00 7-0947E-01 3-3322E+00	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00 7.1115E-01 3.0766F+00
P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387F+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01	STANDING SHOCK 1.4097E+03 5.0345E+01 2.3246E+01 1.1177E+02 6.5575E+00 1.2589E+00 7.0915F-01 3.3028E+00 - MOLE FRACTIONS 1.6974E-01 5.6052E-01	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2916E+00 1.2765E+00 7.0988E-01 3.0027E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.45.29E+02 4.31.35E+01 7.10.98E+00 7.94.98E+01 5.856.3E+00 1.2551E+00 1.12.59E+00 7.061.8E-01 1.332.9E+01	STANDING SHOCK 1.9242E+03 5.354TE+01 2.8375E+01 1.3502E+02 6.9362E+00 1.2905F+00 1.2664F+00 7.0947E-01 3.3322E+00 - MOLE FRACTIONS 2.1037E-01 5.7927E-01	REFLECTED SHOCK 2-9364E+03 5-7725E+01 3-7804E+01 1-6605E+02 7-4322E+00 1-3268E+00 7-1115E-01 3-0766F+00 2-5683E-01 4-8636E-01
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 2-8703E+02 4-105E+01 6-4084E+00 6-7122E+01 5-6387F+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01	STANDING SHOCK 1. 40972-03 5. 03455-01 2. 3248E+01 1.1177E+02 6. 5575E+00 1. 2589E+00 1. 2044E+00 7. 0915F-01 3. 302RE+00 - MOLE FRACTIONS 1.6974E-01 6.6052E-01 1.6974E-01	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2765E+00 7.0988E-01 3.0027E+00 2.1661E-01 5.6679E-01 2.1660E-01	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 3-4529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-2551E+00 1-1259E+01 1-3329E+01	STANDING SHOCK 1.9242E+03 5.3547E+01 2.8375E+01 1.3502E+02 6.9362E+00 1.2905F+00 1.2664E+00 7.0947E-01 3.3322E+00 - MOLE FRACTIONS 2.1037E-01 5.7927E-01 2.1036E-01	REFLECTED SHOCK 2.9364e03 5.7725e01 3.7804e01 1.6605e02 7.4322e00 1.3268e00 1.3456e00 7.1115E-01 3.0766F00
P T RHD H A S Z GAME U SPECIE E- A A+-	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387E+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01	STANDING SHOCK 1.4097E+03 5.0345E+01 2.3248E+01 1.1177E+02 6.5575E+00 1.2589E+00 1.204E+00 7.0915F-01 3.3028E+00 - MOLE FRACTIONS 1.6974E-01 1.6974E-01 1.6374E-01 1.6374E-01	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2716E+00 1.2765E+00 7.0988E-01 3.0027E+00 2.1661E-01 5.6679E-01 2.1660E-01 5.1485E-06	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 3.4529E+02 4.3135E+01 7.1098E+00 7.9498E+01 5.8563E+00 1.2551E+00 1.1259E+00 7.0618E-01 1.3329E+01 1.1181E-01 7.7638E-01 1.1181E-01 1.0271E-07	STANDING SHOCK 1.9242E+03 5.354TE+01 2.8375E+01 1.3502E+02 6.9362E+00 1.2905F+00 1.2664E+00 7.094TE-01 3.3322E+00 MOLE FRACTIONS 2.1037E-01 2.1036E-01 4.1077E-06	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00 7.1115E-01 3.0766F+00 2.5683E-01 4.8636E-01 2.5680E-01 1.4003E-05
P T RMD H A S Z GAME U SPECIE E- A A++ A+++	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-638FF+00 1-0911E+00 7-0989E-01 1-2036E+01	STANDING SHOCK 1. 4097E+03 5. 0345F+01 2. 3248E+01 1.117E+02 6. 5575E+00 1. 2589E+00 1. 2589E+00 1. 2044E+00 7. 0915E-01 3. 3028E+00 MOLE FRACTIONS 1.6974E-01 1.6974E-01 1.3316E-06 1.3306E-16	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2916E+00 1.2765E+00 7.0988E-01 3.0027E+00 2.1661E-01 5.6679E-01 2.1660E-01 5.1485E-06 3.3368E-15	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 3-4529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-1259E+00 7-0618E-01 1-3329E+01 	STANDING SHOCK 1-9242E+03 5-354TE+01 2-8375E+01 1-3502E+02 6-9362E+00 1-2905F+00 1-266FE+00 7-0947E-01 3-3322E+00 MOLE FRACTIONS 2-1037E-01 2-1036E-01 4-1077E-06 1-8652E-15	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 7.1115E-01 3.0766E+00 2.5683E-01 4.8636E-01 2.5680E-01 1.4003E-05 3.6058E-14
P T RMO H A S Z GAME U SPECIE E-A A+++++	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-638FF+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01	STANDING SHOCK 1.40972-03 5.03455-01 2.3248E+01 1.11772-02 6.55755+00 1.2589E+00 1.2548-07 7.0915F-01 3.3028E+00 - MOLE FRACTIONS 1.6974E-01 6.6052E-01 1.3316E-06 1.3068E-16 1.3944F-32	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2765E+00 7.0988E-01 3.0027E+00 2.1661E-01 5.6679E-01 2.1660E-01 5.1495E-06 3.3368E-15 8.7397E-30	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 3.4529E+02 4.3135E+01 7.1098E+00 7.9498F+01 5.8563E+00 1.2551E+00 1.1259E+01 1.3329E+01	STANDING SHOCK 1.9242E+03 5.3547E+01 2.0375E+01 1.3502E+02 6.9362E+00 1.2905F+00 1.2664E+00 7.0947E-01 3.3322E+00 MOLE FRACTIONS 2.1037E-01 5.7927E-01 2.1036E-01 4.1077E-06 1.8652E-15 2.7699E-30	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00 7.1115E-01 3.0766F+00 2.5683E-01 4.8636E-01 1.4003E-05 3.6058E-14 7.6929E-28
P T RHD H A S Z GAME U SPECIE E— A A++++++++ A+++++	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387F+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01 8-3453E-02 8-3309E-01 8-3453E-02 3-0700E-08 1-3677E-20 3-5853E-40 1-7019E-66	STANDING SHOCK 1.4097E+03 5.0345E+01 2.3248E+01 1.1177E+02 6.5575E+00 1.2589E+00 1.2044E+00 7.0915F-01 3.3028E+00 - MOLE FRACTIONS 1.6974E-01 1.6974E-01 1.3316E-06 1.3068E-16 1.9440F-32 7.9922E-54	REFLECTED SHOCK 2-2203E+03 5-4432E+01 3-1955E+01 1-3950E+02 7-0231E+00 1-2765E+00 7-0988E-01 3-0027E+00 2-1661E-01 5-6679E-01 2-1660E-01 5-1485E-06 3-3368E-15 8-7397E-30 1-6964E-49	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 3.4529E+02 4.3135E+01 7.1098E+00 7.9498E+01 5.8563E+00 1.2551E+00 1.1259E+00 7.0618E-01 1.3329E+01 1.1181E-01 7.7638E-01 1.1181E-01 1.0271E-07 2.0971E-19 5.7438E-38 4.8468E-63	STANDING SHOCK 1-9242E+03 5-354TE+01 2-8375E+01 1-3502E+02 6-9362E+00 1-2905F+00 1-2664E+00 7-0947E-01 3-3322E+00 MOLE FRACTIONS 2-1037E-01 5-7927E-01 2-1036E-01 4-1077E-06 1-8652E-15 2-7699E-30 2-5229E-50	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 7.1115E-01 3.0766F+00 2.5683E-01 4.8636E-01 2.5680E-01 1.4003E-05 3.6058E-14 7.6929E-28 2.2650E-46
P T RMD H A S Z GAME U SPECIE E-A A++++ A++++ AV AVI	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387F+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01 8-3453E-02 8-3453E-02 3-0700E-08 1-3677E-20 3-5853E-60 1-7019E-66	STANDING SHOCK 1. 4097E+03 5. 0345F+01 2. 3248E+01 1.1177E+02 6. 5575E+00 1. 2589E+00 1. 2549E+00 1. 2044E+00 7. 0915F-01 3. 3028E+00 - MOLE FRACTIONS 1.6974E-01 1.6974E-01 1.3316E-06 1.3048E-16 1.9440F-32 7.9922E-54 3.9918E-61	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2765E+00 7.0988E-01 3.0027E+00 2.1661E-01 5.6679E-01 2.1660E-01 5.1485E-06 3.3368E-15 8.7397E-30 1.6964E-49 1.0064E-74	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 3-4529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-2551E+00 1-1259E+01 1-3329E+01	STANDING SHOCK 1.9242E+03 5.354TE+01 2.8375E+01 1.3502E+02 6.9362E+00 1.2905F+00 1.2664E+00 7.0947E-01 3.3322E+00 MOLE FRACTIONS 2.1037E-01 5.7927E-01 2.1036E-01 4.1077E-06 1.8652E-15 2.7699E-30 2.5229E-50 5.6708E-75	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00 7.1115E-01 3.0766F+00 2.5683E-01 4.8636E-01 2.5680E-01 1.4003E-05 3.6058E-14 7.6929E-28 2.2650E-46 3.8784E-70
P T RMO H A S Z GAME U SPECIE E-A A+++++++++++++++++++++++++++++++++	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387F+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01 8-3453E-02 8-3453E-02 3-0700E-08 1-3677E-20 3-55853E-40 1-7019E-66 0-0	STANDING SHOCK 1.4097E+03 5.0345E+01 2.3248E+01 1.1177E+02 6.5575E+00 1.2589E+00 1.2589E+00 1.304E+00 7.0915F-01 3.302RE+00 - MOLE FRACTIONS 1.6974E-01 1.6974E-01 1.3316E-06 1.3068E-16 1.3068E-16 1.3944F-32 7.3922E-54 3.9918E-81	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2916E+00 1.2765E+00 7.0988E-01 3.0027E+00	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV AVI	MOVING SHOCK 3-4529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-2551E+00 1-1259E+00 7-0618E-01 1-3329E+01	STANDING SHOCK 1-9242E+03 5-3547E+01 2-8375E+01 1-3502E+02 6-9362E+00 1-2905F+00 1-2666E+00 7-0947E-01 3-3322E+00 MOLE FRACTIONS 2-1036E-01 5-7927E-01 2-1036E-01 4-1077E-06 1-8652E-15 2-7699E-30 2-5229E-50 5-6708E-76	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00 7.1115E-01 3.0766F+00
P T RMD H A S Z GAME U SPECIE E-A A++++ A++++ AV AVI	MOVING SHOCK 2-8703E+02 4-1052E+01 6-4084E+00 6-7122E+01 5-6387F+00 1-2323E+00 1-0911E+00 7-0989E-01 1-2036E+01 8-3453E-02 8-3453E-02 3-0700E-08 1-3677E-20 3-5853E-60 1-7019E-66	STANDING SHOCK 1. 4097E+03 5. 0345F+01 2. 3248E+01 1.1177E+02 6. 5575E+00 1. 2589E+00 1. 2549E+00 1. 2044E+00 7. 0915F-01 3. 3028E+00 - MOLE FRACTIONS 1.6974E-01 1.6974E-01 1.3316E-06 1.3048E-16 1.9440F-32 7.9922E-54 3.9918E-61	REFLECTED SHOCK 2.2203E+03 5.4432E+01 3.1955E+01 1.3950E+02 7.0231E+00 1.2765E+00 7.0988E-01 3.0027E+00 2.1661E-01 5.6679E-01 2.1660E-01 5.1485E-06 3.3368E-15 8.7397E-30 1.6964E-49 1.0064E-74	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 3-4529E+02 4-3135E+01 7-1098E+00 7-9498F+01 5-8563E+00 1-2551E+00 1-1259E+01 1-3329E+01	STANDING SHOCK 1.9242E+03 5.354TE+01 2.8375E+01 1.3502E+02 6.9362E+00 1.2905F+00 1.2664E+00 7.0947E-01 3.3322E+00 MOLE FRACTIONS 2.1037E-01 5.7927E-01 2.1036E-01 4.1077E-06 1.8652E-15 2.7699E-30 2.5229E-50 5.6708E-75	REFLECTED SHOCK 2.9364E+03 5.7725E+01 3.7804E+01 1.6605E+02 7.4322E+00 1.3268E+00 1.3456E+00 7.1115E-01 3.0766F+00 2.5683E-01 4.8636E-01 2.5680E-01 1.4003E-05 3.6058E-14 7.6929E-28 2.2650E-46 3.8784E-70

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	MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK .		MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.7609E+02	2. 2124F+03	3.33758+03	P	4-4137E+02	2. 8645E+03	4.2346E+03
Ť	4.4110E+01	5.5104E+01	5.9378E+01	í	4.5970E+01	5.8222E+01	6.2783E+01
RHO	7.4491E+00	3.0915E+01	4.0685E+01	RHO	8.1058E+00	3.6006E+01	4.6311E+01
H	8.6052E+01	1.47255+02	1.8009F+02	H	9.9915F+01	1.7321F+02	2.0987E+02
A	5.9667E+00	7. 1280E+00	7.6432E+00	A	6.19195+00	7.5236E+00	8.0861E+00
ŝ	1.2670E+00	1.3071E+00	1.3451E+00	Š	1.2921E+00	1.3415E+00	1.3830E+00
3 Z	1.1446E+00	1.2987E+00	1.38156+00	3 7	1.18456+00	1.3664E+00	1.4564E+00
GAME		7.09955-01		GAME		7. 1152E-01	
U	7.0515E-01		7.12146-01	GA TE	7.0411E-01	3. 43 88 E+ 00	7.1507E-01
U	1.3963E+01	3.3694F+00	3.1208E+00	U	1.5222E+01	36 43 50 CT UU	3.2241E+00
SPECIES	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	1.2633E-01	2.3002E-01	2.7616E-01	£	1.5576E-01	2.6815E-01	3.1339E-01
A	7.4734E-01	5.3996E-01	4.4769E-01	<u>-</u>	6.8848E-01	4.6372E-01	3.7327E-01
Ã+	1.2633E-01	2.3001E-01	2.7612F-01	Ã+	1.5576E-01	2.6812E-01	3. 1329E-01
A++	1.7327E-07	6.7884F-06	2. 76[2E-0] 2. 2276E-05	A++	4.4038F-07	1.7208E-05	5.4215E-05
A+++ .	6.8839E-19	6.1453E-15		A+++	5.8490E-18	5.6349E-14	9. 2387E-13
A++++	5.3048E-37	2.6279E-29		A++++		1.6870E-27	
AV	1.94756-61		6.1877E-27		3.0319E-35		3.3744E-25
		9.5610F-49	6.4641E-45	AV	1.62308-58	7.5241E-46	3.9432E-42
AVI	0.	1.2327F-73	5.3527E-68	IVA	3.40356-88	2.0305E-69	6.5142E-64
AVII	0.	0•	0.	11VA	0.	. 0.	1.1901E-93
AVIII	0.	0.	0.	TIIVA	0.	0.	0.
			÷,				
					• •		•
PI = 1	1.00E+03 N/SQ-M	US1= 5.40E+0	3 M/SEC	P1 = 1	00E+03 N/SQ-M	, US1= 5.80E+0	3 M/SEC
_	MOVING SHOCK		REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	
P ·	4.0812E+02	2.5263E+03	3.7701E+03	ρ.	4.7584E+02	3.2259E+03	4.7313E+03
T .	4.5053E+01	5.6660E+01	6.1060E+01	T	4.6865E+01	5.9796E+01	6.4564E+01
RHO	7.7814F+00 .	3.3470E+01	4.3528E+01	RHO	8.4216E+00	3.8492E+01	4.9007E+01
H	9.2857E+01	1.5999E+02	1.9469E+02	H	1.0722E+02	1.8689E+02	2.2563E+02
A	6.0786E+00	7.3237E+00	7.8608E+00	A	6.3068E+00	7.7282E+00	8.3210E+00
S	1.2794E+00	1.3241E+00	1.3638E+00	S	1.3052E+00	1.3594E+00	1-4026E+00
Z	1.1641E+00	1.3321E+00	1.4185F+00	2	1.2056E+00	1.4015E+00	1.4953E+00
GAME	7.0449E-01	7. 1063E-01	7.1342E-01	GAME	7.0396E-01	7.1266E-01	7.1718E-01
· U	1.45948+01	3. 4023E+00	3.1698E+00	, U	1.5847E+01	.3. 4837E+00	3.2841E+00
SPECIES			**			•	•
	,	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
		TOLL THACTIONS	•	SPECIES		- MOLE FRACTIONS	
E-	1.4100E-01	2.4931F-01	2.9503E-01	E-	1.70576-01	2.8650E-01	3.3124E-01
Α .	1.4100E-01 7.1800E-01	2.4931F-01 5.0139F-01	2.9503E-01 4.0998F-01	E- A	1.7057E-01 6.5887E-01	2.8650E-01 4.2702E-01	3.3124E-01 3.3760E-01
A A+	1.4100E-01 7.1800E-01 1.4100E-01	2.4931F-01 5.0139F-01 2.4929E-01	2.9503E-01 4.0998F-01 2.9496F-01	E- A A+	1.7057E-01 6.5887E-01 1.7057E-01	2.8650E-01 4.2702E-01 2.8645E-01	3.3124E-01 3.3760E-01 3.3107E-01
A A+ A++	1.4100E-01 7.1800E-01 1.4100E-01 2.8090E-07	2.4931F-01 5.0139F-01 2.4929E-01 1.0926E-05	2.9503E-01 4.0998F-01 2.9496F-01 3.4924E-05	E- A A+ A++	1.7057E-01 6.5887E-01 1.7057E-01 6.7116E-07	2.8650E-01 4.2702E-01 2.8645E-01 2.6637E-05	3.3124E-01 3.3760E-01 3.3107E-01 8.3726E-05
A A+ A++ A+++	1.4100E-01 7.1800E-01 1.4100E-01 2.8090E-07 2.0844E-18	2.4931E-01 5.0139E-01 2.4929E-01 1.0926E-05 1.9068E-14	2.9503E-01 4.0998F-01 2.9496F-01 3.4924E-05 3.2126E-13	E- A A+ A++	1.7057E-01 6.5887E-01 1.7057E-01	2.8650E-01 4.2702E-01 2.8645E-01	3.3124E-01 3.3760E-01 3.3107E-01
A A++ A+++ A++++	1.4100E-01 7.1800E-01 1.4100E-01 2.8090E-07 2.0844E-18 4.3646E-36	2.4931F-01 5.0139F-01 2.4929E-01 1.0926E-05 1.9068E-14 2.2087E-28	2.9503E-01 4.0998F-01 2.9496F-01 3.4924E-05	E- A A+ A++	1.7057E-01 6.5887E-01 1.7057E-01 6.7116E-07	2.8650E-01 4.2702E-01 2.8645E-01 2.6637E-05	3.3124E-01 3.3760E-01 3.3107E-01 8.3726E-05
A A+ A++ A+++ A+++	1.4100E-01 7.1800E-01 1.4100E-01 2.8090E-07 2.0844E-18 4.3646E-36 7.0392E-60	2.4931F-01 5.0139F-01 2.4929E-01 1.0926E-05 1.9068E-14 2.2087E-28 2.9180E-47	2.9503E-01 4.0998F-01 2.9496F-01 3.4924E-05 3.2126E-13	E- A A+ A++	1.7057E-01 6.5887E-01 1.7057E-01 6.7116E-07 1.5384E-17	2.8650E-01 4.2702E-01 2.8645E-01 2.6637E-05 1.6051E-13	3.3124E-01 3.3760E-01 3.3107E-01 8.3726E-05 2.6299E-12
A A++ A+++ A++++	1.4100E-01 7.1800E-01 1.4100E-01 2.8090E-07 2.0844E-18 4.3646E-36	2.4931F-01 5.0139F-01 2.4929E-01 1.0926E-05 1.9068E-14 2.2087E-28	2.9503E-01 4.0998F-01 2.9496F-01 3.4924E-05 3.2126E-13 4.6698E-26	E- A A+ A++ A+++	1.7057E-01 6.5887E-01 1.7057E-01 6.7116E-07 1.5384E-17 1.8352E-34	2.8650E-01 4.2702E-01 2.8645E-01 2.6637E-05 1.6051E-13 1.2134E-26	3.3124E-01 3.3760E-01 3.3107E-01 8.3726E-05 2.6299E-12 2.3848E-24
A A+ A++ A+++ A+++	1.4100E-01 7.1800E-01 1.4100E-01 2.8090E-07 2.0844E-18 4.3646E-36 7.0392E-60	2.4931F-01 5.0139F-01 2.4929E-01 1.0926E-05 1.9068E-14 2.2087E-28 2.9180E-47	2.9503E-01 4.0998F-01 2.9496F-01 3.4924E-05 3.2126E-13 4.6698E-26 1.6571E-43	E- A A+ A++ A+++ A	1.7057E-01 6.5887E-01 1.7057E-01 6.7116E-07 1.5384E-17 1.8352E-34 2.8492E-57	2.8650E-01 4.2702E-01 2.8645E-01 2.6637E-05 1.6051E-13 1.2134E-26 1.8445E-44	3.3124E-01 3.3760E-01 3.3107E-01 8.3726E-05 2.6299E-12 2.3848E-24 9.0417E-41
A A+ A++ A+++ AV AVI	1.4100E-01 7.1800E-01 1.4100E-01 2.8090E-07 2.0844E-18 4.3646F-36 7.0392E-60 6.0648E-91	2.4931F-01 5.0139F-01 2.4929E-01 1.0926E-05 1.9068E-14 2.2087E-28 2.9180E-47 1.8525E-71	2.9503E-01 4.0998F-01 2.9496F-01 3.4924E-05 3.2126E-13 4.6698E-26 1.6571E-43 6.2569E-66	E- A A+ A++ A+++ AV AVI	1.7057E-01 6.5887E-01 1.7057E-01 6.7116E-07 1.5384E-17 1.8352E-34 2.8492E-57 2.1693E-86	2.8650E-01 4.2702E-01 2.8645E-01 2.6637E-05 1.6051E-13 1.2134E-26 1.8445E-44 2.4831E-67	3.3124E-01 3.3760E-01 3.3107E-01 8.3726E-05 2.6299E-12 2.3848E-24 9.0417E-41 6.4527E-62

P1 = 1	.00E+03 N/SQ-M,	US1= 6.00E+03	3 M/SEC	P1 = 1.0	00E+03 _. N/SQ-M ₁	US1= 6-40E+0	3 M/SEC
				;		,	
	MOUTHE CHOCK	STANDING SUDER	DEFICE CARD CHOCK		Hautua augen	**************************************	
	MOVING SHOCK 5-1150F+02		REFLECTED SHOCK 5.2597E+03		MOVING SHOCK		REFLECTED SHOCK
Ť		3.6154E+03	6.64225+01	γ Τ	5.8651E+02	4. 4570E+03	6.4167E+03
RHO	4.7742F+01	6- 1402E+01			4.9461E+01	6.4722E+01	7.0485E+01
	8.7277E+00	4.0959E+01	5-1586E+01	RHO `	9.3107E+00	4. 5554E+01	5.6302E+01
н	1.1479F+02	2.0109E+02	2.4199E+02		1.3067E+02	2.3083E+02	2.7661E+02
A	6.4233E+00	7.9392E+00	8.5672E+00	`	6.6618E+00	8.3820E+00	9.1069E+00
5	1.3186E+00	1.3776F+00	1.4225E+00 /	, S	1.3464E+00	1.4151E+00	1.4635E+00
7	1.2275E+00	1.4376E+00	1.5350E+00	Z	1.2736E+00	1.5117E+00	1.6169E+00
GAME	7.0399F-01	7.1408E-01	7.1987E-01	GAME .	7.0451E-01	7.1808F-01	7.2771E-01
์ บ	1.6469E+01	3.5132E+00	3.3507E+00	U ·	1.7709E+01	3.6239E+00	3.5074E+00
		A	18 18 18 18 18 18 18 18	•			
SPECIES		- MOLE FRACTIONS		SPECIES	··	- MOLE FRACTIONS	
1 . 6	4.1		er alt in the part of the control of	•		+ 1	•
E-	-1.8537E-01	3.0438E-01	3.4855E-01	€-	2.1482F-01	3.3850E-01	3.8154E-01 ·
Α .	6.2926E-01	3.9128E-01	3.0304E-01	Α '	5.7037E-01	3.2309E-01	2.3723E-01
A+	1.8537E-01	3.0430F-01	3.4829E-01	A+**	2.1481E-01	3.3831E-01	3.8091E-01
A++ '	9.9861E-07	4.0758E-05	1.2920E-04	A++	2.0870E-06	9.3146E-05	3.1419E-04
A+++	3.8329E-17	4.4470E-13	7.4892E-12	A+++	2.1005F-16	3.2526E-12	6.4158E-11
A++++	9.9666E-34	8.12645-26	1.6806E-23	A++++	2.3125E-32	3.3782E-24	9.0713E-22
AV: 3	- 4-1518E-56	3.7788E-43	2.0580E-39	AV	5.4608E-54	1.5190E-40	1.1820E-36
AVI	1.0430E-84	1.8971E-65	6.3160E-60	IVA	3.3452E-82	1.3518E-61	6.6665E-56
AVII	0.	0.	1.1325E-87	AVII	0.	4.3966E-90	6.5190E-82
AVIII	0.	j.	04	AVIII	0.	0.	0.
	••		17*	~~	••	•	•
		•	- / ¹ :				
			'				
			11				
			\mathcal{A}'				•
			H_{i_1,i_2}				·
P1 = 1	.00E+03 N/SQ-M	US1= 6.20E+03	M/SEC	P1 = 1	00E+03 N/SQ-M	, US1= 6.60E+0	3 M/SEC
P1 ≈ 1	.00E+03 N/SQ-M	US1= 6.20E+03	M/SEC	P1 = 1.	00E+03 N/SQ-M	, US1= 6.60E+0	3 M/SEC
				₹.			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	₹. • •	MOVING SHOĆK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 5.4841F+02	STANDING SHOCK	REFLECTED SHOCK	∕.'. P	MOVING SHOCK	STANDING SHOCK 4.9164E+03	REFLECTED SHOCK 7.0524E+03
P T	MOVING SHOCK 5.4841F+02 4.8607E+01	STANDING SHOCK 4.0249E+03 6.3037E+01	REFLECTED SHDCK 5.8221E+03 6.8405E+01	e d'. P − e d T − d	MOVING SHOCK 6.2607E+02 5.0310E+01	STANDING SHOCK 4.9164F+03 6.6485F+01	REFLECTED SHOCK 7.0524E+03 7.2783E+01
P	MOVING SHOCK 5.4841F+02	STANDING SHOCK	REFLECTED SHOCK	P T RHO	MOVING SHOCK	STANDING SHOCK 4.9164E+03	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01
P T	MOVING SHOCK 5.4841F+02 4.8607E+01	STANDING SHOCK 4.0249E+03 6.3037E+01	REFLECTED SHDCK 5.8221E+03 6.8405E+01	e d'. P − e d T − d	MOVING SHOCK 6.2607E+02 5.0310E+01	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02
P T RHO	MOVING SHOCK 5.4841F+02 4.8607E+01 9.0246E+00	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3308E+01	REFLECTED SHDCK 5.8221E+03 6.8405E+01 5.3998E+01	P T RHO H	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01
P T RHO H	MOVING SHOCK 5.4841F+02 4.8607E+01 9.0246E+00 1.2260E+02	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3308E+01 2.1573E+02	REFLECTED SHOCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02	P T RHO H	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02
P T RHO H	MOVING SHOCK 5.4841F+02 4.8607F+01 9.0246E+00 1.2260E+02 6.5416E+00	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3308E+01 2.1573E+02 8.1566E+00	REFLECTED SHOCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00	P T RHO H	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02 8.6189F+00	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00
P T RHO: H	.MOVING SHOCK 5.4841F+02 4.8607E+01 9.0246E+00 1.2260E+02 6.5416E+00 1.3323E+00	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3308E+01 2.1573E+02 8.1566E+00 1.3962E+00	REFLECTED SHITCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00	P T RHO H A	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343F+00	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00
P T RHO: H	MOVING SHOCK 5.4841E+02 4.8607E+01 9.0246E+00 1.2260E+02 6.5416E+00 1.3323E+00 1.2502E+00	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3308E+01 2.1573E+02 8.1566E+00 1.3962E+00 1.4743E+00	REFLECTED SHUCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 1.5762E+00	P T RHO H A S Z	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00	STANDING SHOCK 4.9164F+03 6.6485F+01 4.770F+01 2.4649E+02 8.6189F+00 1.4343F+00 1.5500E+00	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00
P T RHO H A S Z GAME	MOVING SHOCK 5-4841E+02 4-8607E+01 9-0246E+00 1-2260E+02 6-5416E+00 1-3323E+00 1-2502E+00 7-0418E-01	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3309E+01 2.15736E+02 8.1566E+00 1.3962E+00 1.4743E+00 7.1586E-01	REFLECTED SHICK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 1.5762E+00 7.2336E-01	P T RHO H A S Z GAME	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01	STANDING SHOCK 4.9164F+03 6.648F5+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343F+00 1.5500E+00 7.2087E-01	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00 7.3333E-01
P T RHO: H A S Z GAME U	MOVING SHOCK 5-4841F+02 4-8607E+01 9-0246E+00 1-2260E+02 6-5416E+00 1-3323E+00 1-2502E+00 7-0418E-01 1-7091E+01	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3308E+01 2.1573E+02! 8.1566E+00 1.3962E+00 1.4743E+00 7.1586E-01 3.5666E+00	REFLECTED SHICK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 1.5762E+00 7.2336E-01	P T RHO H A S Z GAME U	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343F+00 1.5500E+00 7.2087E-01 3.6895E+00	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00 7.3333E-01 3.6007E+00
P T RHO H A S Z GAME	MOVING SHOCK 5-4841F+02 4-8607E+01 9-0246E+00 1-2260E+02 6-5416E+00 1-3323E+00 1-2502E+00 7-0418E-01 1-7091E+01	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3309E+01 2.15736E+02 8.1566E+00 1.3962E+00 1.4743E+00 7.1586E-01	REFLECTED SHICK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 1.5762E+00 7.2336E-01	P T RHO H A S Z GAME	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01	STANDING SHOCK 4.9164F+03 6.648F5+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343F+00 1.5500E+00 7.2087E-01	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00 7.3333E-01 3.6007E+00
PTRHOHA ASSIGNMEU	MOVING SHOCK 5-4841E+02 4-8607E+01 9-0246E+00 1-2260E+02 6-5416E+00 1-3323E+00 1-2502E+00 7-0418E-01 1-7091E+01	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3309E+01 2.1573E+02! 8.1566E+00 1.3962E+00 1.4743E+00 7.1586E-01 3.5666E+00	REFLECTED SHNCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 1.5762E+00 7.2336E-01 3.4247E+00	P T RHO H A S Z GAME U	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01 1.8332E+01	STANDING SHOCK 4.9164F+03 6.648F5+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343F+00 1.4343F+01 3.500E+00 7.2087E-01 3.6895E+00	REFLECTED SHOCK 7.0524e03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00 7.3333E-01 3.6007E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 5.4841f+02 4.8607E+01 9.0246E+00 1.2260E+02 6.5416E+00 1.3323E+00 1.2502E+00 7.0418E-01 1.7091E+01	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3308E+01 2.1573E+02! 8.1566E+00 1.3962E+00 1.4743E+00 7.1578E-01 3.5666E+00 - MOLE FRACTIONS	REFLECTED SHITCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 1.5762E+00 7.2336E-01 3.4247E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01 1.8332E+01	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343E+00 1.5500E+00 7.2087E-01 3.6895E+00	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00 7.3333E-01 3.6007E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 5.4841F+02 4.8607E+01 9.0246E+00 1.2260E+02 6.5416E+00 1.323E+00 7.0418E-01 1.7091E+01 2.0013E-01 5.9974F-01	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3309E+01 2.1573E+02 8.1566E+00 1.3962E+00 7.1596E-01 3.5666E+00 MOLE FRACTIONS 3.2171E-01 3.5663E-01	REFLECTED SHITCK 5.8221E+03 6.8405F+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 7.2336E-01 3.4247E+00 3.6556E-01 2.6909E-01	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01 1.8332E+01	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343F+00 1.5500E+00 7.2087E-01 3.6895E+00 - MOLE FRACTIONS 3.5482E-01 2.9050F-01	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00 7.3333E-01 3.6007E+00
P T RHO H S S GAME U SPECIES	MOVING SHOCK 5-4841E+02 4-8607E+01 9-0246E+00 1-2260E+02 6-5416E+00 1-3323E+00 1-2502E+00 7-0418E-01 1-7091E+01 2-0013E-01 2-0013E-01	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3304E+01 2.1573E+02! 8.1566E+00 1.3962E+00 1.4743E+01 7.1586E-01 3.5666E+00 MOLE FRACTIONS 3.2171E-01 3.5663E-01 3.2159E-01 3.2159E-01	REFLECTED SHICK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 1.5762E+00 7.2336E-01 3.4247E+00 3.6556E-01 2.6909E-01 3.6515E-01	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01 1.8332E+01	STANDING SHOCK 4.9164F+03 6.648F5+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343F+00 1.5500E+00 7.2087E-01 3.6895E+00 - MOLE FRACTIONS 3.5482E-01 2.9050F-01 3.5454F-01	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00 7.3333E-01 3.6007E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 5.4841F+02 4.8607E+01 9.0246E+00 1.2260E+00 1.3323E+00 1.2502E+00 7.0418E-01 1.7091E+01 2.0013E-01 5.9974F-01 2.0013E-01 1.4561E-06	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3309E+01 2.1573E+02! 8.1566E+00 1.3962E+00 1.4743E+00 7.1596E-01 3.5666E+00 3.5663E-01 3.2171E-01 3.2159E-01 6.1767E-05	REFLECTED SHITCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.5762E+00 7.2336E-01 3.4247E+00 3.6556E-01 2.6909E-01 3.6515E-01 2.0148E-04	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01 1.8332E+01	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343E+00 1.5500E+00 7.2087E-01 3.6895E+00 - MOLE FRACTIONS 3.5482E-01 2.9050F-01 3.5454F-01 1.4072E-04	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.6591E+00 7.333E-01 3.6007E+00 3.9726E-01 2.0599E-01 3.9625E-01 5.0270E-04
P T RHO H	MOVING SHOCK 5.484 LE+02 4.8607E+01 9.0246E+00 1.2260E+02 6.5416E+00 1.3323E+00 1.2502E+00 7.0418E-01 1.7091E+01 2.0013E-01 2.0013E-01 1.4561E-06 9.1295E-17	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3309E+01 2.1573E+02! 8.1566E+00 1.3762E+00 1.4743E+00 7.1596E-01 3.5666E+00 MOLE FRACTIONS 3.2171E-01 3.2159E-01 6.1767E-05 1.2038E-12	REFLECTED SHNCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 1.5762E+00 7.2336E-01 3.4247E+00 3.6556E-01 2.6909E-01 3.6515E-01 2.0148E-04 2.1889E-11	P T RHO H A S Z GAME U SPECIES E- A A+ A+++	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01 1.8332E+01 2.2941E-01 5.4118F-01 2.2940E-01 2.9491E-06 4.6945E-16	STANDING SHOCK 4.9164F+03 6.648F5+01 4.7709E+01 2.4649E+02 8.6189F+00 1.5500E+00 7.2087E-01 3.6895E+00 - MOLE FRACTIONS 3.5482E-01 2.9050F-01 3.5454F-01 1.4072E-04 8.7947E-12	REFLECTED SHOCK 7.0524e03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00 7.3333E-01 3.6007E+00 3.9726E-01 2.0599E-01 3.9625E-01 5.0270E-04 2.0034E-10
P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++	MOVING SHOCK 5-4841F+02 4-8607F+01 9-0246E+00 1-2260E+00 1-3323E+00 1-2502E+00 7-0418E-01 1-7091E+01 2-0013E-01 1-4561E-06 9-1295E-17 4-9035E-33	STANDING SHOCK 4.0249E+03 6.3037E+01 4.3304E+01 2.1573E+02! 8.1566E+00 1.3962E+00 1.4743E+00 7.1586E-01 3.5666E+00 - MOLE FRACTIONS 3.2171E-01 3.2563E-01 3.2159E-01 6.1767E-05 1.2038E-12 5.3039E-25	REFLECTED SHITCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 1.5762E+00 7.2336E-01 3.4247E+00 3.6556E-01 2.6009E-01 3.6515E-01 2.0148E-04 2.1889E-11 1.2337E-22	P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A+++	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.2977E+00 1.2977E+00 1.2977E+01 1.8332E+01 2.2941E-01 2.2940E-01 2.9491E-06 4.6945E-16 1.0432E-31	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343F+00 1.5500E+00 7.2087E-01 3.6895E+00 - MOLE FRACTIONS 3.5482E-01 2.9050F-01 3.5454F-01 1.4072E-04 8.7947E-12 2.1506E-23	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00 7.3333E-01 3.6007E+00 3.9726E-01 2.0599E-01 3.9625E-01 5.0270E-04 2.0034E-10 7.4475E-21
P T RHO H A S Z Z GAME U SPECIES E-A A+A+++A++++AV	MOVING SHOCK 5.4841F+02 4.8607E+01 9.0246E+00 1.2260E+00 1.3323E+00 1.2502E+00 7.0418E-01 1.7091E+01 2.0013E-01 2.0013E-01 2.0013E-01 1.4561E-06 9.1295E-17 4.9035E-33 4.5975E-55	STANDING SHOCK	REFLECTED SHITCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.5762E+00 7.2336E-01 3.4247E+00 3.6556E-01 2.6909E-01 3.6515E-01 2.0148E-04 2.1889E-11 1.2337E-22 4.9357E-38	P T RHO H A S S Z GAME U SPECIES E- A A+ A++ A+++ A+++ AV	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01 1.8332E+01 2.2940E-01 2.940E-01 2.940E-01 2.949E-06 4.6945E-16 1.0432E-31 6.3682E-53	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343E+00 1.5500E+00 7.2087E-01 3.6895E+00 - MOLE FRACTIONS 3.5482E-01 2.9050F-01 3.5454F-01 1.4072E-04 8.7947E-12 2.1506E-23 2.9032E-39	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.6591E+00 7.3333E-01 3.6007E+00 3.9726E-01 2.0599E-01 3.9625E-01 5.0270E-04 2.0034E-10 7.4475E-21 3.3404E-35
P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++ AVI	MOVING SHOCK 5.484 LE+02 4.8607E+01 9.0246E+00 1.2260E+02 6.5416E+00 1.2502E+00 7.0418E-01 1.7091E+01 2.0013E-01 2.0013E-01 1.4561E-06 9.1295E-17 4.9035E-33 4.5975E-55 7.3080F-84	STANDING SHOCK	REFLECTED SHNCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.4432E+00 1.5762E+00 7.2336E-01 3.4247E+00 3.6556E-01 2.6909E-01 3.6515E-01 2.0148E-04 2.1889E-11 1.2337E-23 4.9357E-38 6.5064E-58	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV AV AVI	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01 1.8332E+01 2.2941E-01 5.4118F-01 2.2940E-01 2.9491E-04 4.6945E-16 1.0432E-31 6.3682F-53 2.7259E-80	STANDING SHOCK 4.9164F+03 6.648F5+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343F+00 1.5500E+00 7.2087E-01 3.6895E+00 - MOLE FRACTIONS 3.5482E-01 2.9050F-01 3.5454F-01 1.4072E-04 8.7947E-12 2.1506E-23 2.9032E-39 9.9774E-50	REFLECTED SHOCK 7.0524e03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.4845E+00 1.6591E+00 7.3333E-01 3.6007E+00 3.9726E-01 2.0599E-01 3.9625E-01 5.0270E-04 2.0034E-10 7.4475E-21 3.3404E-35 8.5512E-54
P T RHO H A S Z Z GAME U SPECIES E-A A+A+++A++++AV	MOVING SHOCK 5.4841F+02 4.8607E+01 9.0246E+00 1.2260E+00 1.3323E+00 1.2502E+00 7.0418E-01 1.7091E+01 2.0013E-01 2.0013E-01 2.0013E-01 1.4561E-06 9.1295E-17 4.9035E-33 4.5975E-55	STANDING SHOCK	REFLECTED SHITCK 5.8221E+03 6.8405E+01 5.3998E+01 2.5899E+02 8.8314E+00 1.5762E+00 7.2336E-01 3.4247E+00 3.6556E-01 2.6909E-01 3.6515E-01 2.0148E-04 2.1889E-11 1.2337E-22 4.9357E-38	P T RHO H A S S Z GAME U SPECIES E- A A+ A++ A+++ A+++ AV	MOVING SHOCK 6.2607E+02 5.0310E+01 9.5894E+00 1.3900E+02 6.7842E+00 1.3607E+00 1.2977E+00 7.0496E-01 1.8332E+01 2.2940E-01 2.940E-01 2.940E-01 2.949E-06 4.6945E-16 1.0432E-31 6.3682E-53	STANDING SHOCK 4.9164F+03 6.6485F+01 4.7709E+01 2.4649E+02 8.6189F+00 1.4343E+00 1.5500E+00 7.2087E-01 3.6895E+00 - MOLE FRACTIONS 3.5482E-01 2.9050F-01 3.5454F-01 1.4072E-04 8.7947E-12 2.1506E-23 2.9032E-39	REFLECTED SHOCK 7.0524E+03 7.2783E+01 5.8403E+01 2.9504E+02 9.4102E+00 1.6591E+00 7.3333E-01 3.6007E+00 3.9726E-01 2.0599E-01 3.9625E-01 5.0270E-04 2.0034E-10 7.4475E-21 3.3404E-35

· P1 - 1 kN/ m2

P1 = 1	-00E+03 N/SQ-M	US1= 6.80E+0	3 M/SEC	P1 =	1.00E+03 N/SQ-F	1, US1= 7.20E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ.	6.6639F+02	5. 3864E+03	7.7093E+03	Р	7.5062E+02	6.3819E+03	9.1224E+03
T	5.1151E+01	6.8309E+01	7.5273E+01	ī	5.2833E+01	7. 2315E+01	8.1265E+01
RHO	9.8511E+00	4.96468+01	6.0215E+01	RHO	1.0340E+01	5. 2968E+01	6.2905E+01
H				H	1.6547E+02	2.9568E+02	3.5394E+02
Ä	1.4757E+02	2.6244E+02	3.1396E+02	Ä			
	6.9084E+00	8.8648E+00	9.7350E+00	Š	7.1641E+00	9. 4031E+00	1.0479E+01
S	1.3754E+00	1.4536F+00	1.5054E+00		1.4055E+00	1.4926E+00	1.5480E+00
Z	1.3225E+00	1.5883E+00	1.7009E+00	٠ ک	1.3740E+00	1.66615+00	1.7845E+00
GAME	7.0552E-01	7.2431E-01	7.4022E-01	GAME	7.0700E-01	7.3386E-01	7.5720E-01
U	1.8941E+01	3.7633E+00	3.7063E+00	U	2.0153E+01	3. 9392F+00	3.9516E+00
SPECIES		- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
£-	2.4384E-01	· 3.7041E-01	4.1207E-01	€-	2.7222E-01	3.9979F-01	4.3962E-01
Α .	5-1232E-01	2.5940E-01	1.7668E-01	Ä	4.5557E-01	2.00915-01	1.2315E-01
A+ -	2.4384E-01	3.6998F-01	4.1043E-01	A+	2.7220E-01	3.9880E-01	4.3483E-01
A++	4.1110E-06	2.1222E-04	8.1722F-04	A++	7.7511E-06	4.96548-04	2.3980E-03
A+++	1.0188E-15	2.3704E-11	6.5149E-10	A+++	4.5001E-15	1.8534E-10	8.9477E-09
A++++ .	4.4589E-31	1.3539E-22	6. 5609E-20	A++++	7.19746-30	6.09786-21	8.0606E-18
AV .	6.7940E-52	5.4092E-38	1.0550E-33	AV	6.1301E-50	2.3109F-35	2. 1111E-30
AVI	1.2224E-78	6.9923E-58	1. 3056E-51	AVI	1.1286E-75	4.8147E-54	7.9597E-47
AVII	0.	8.7233E-85	8.8342E-76	IIVA	0.	2.82406-79	5.69688-69
IIIVA	0.	0.	0.	IIIVA	0.	0.	0.
P1 = 1	.00E+03 N/SQ-M	. US1= 7.00E+0	3 M/SEC	P1 =	1.00E+03 N/SQ-M	, US1= 7.40E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P ·	7.0791E+02	5.8754E+03	8.4023E+03	P	7.9452F+02	6.9037E+03	9.88746+03
T	5.1991E+01	7.0242F+01	7.8108E+01	Ŧ	5.3679F+01	7.4566E+01	8.4901E+01
RHO	1.01016+01	5.1408E+01	6.1701E+01	RHO	1.0566E+01	5.4300E+01	6.3816E+01
H	1.5639E+02	2.7883F+02	3.3370E+02	н	1.7479F+02	3.1296F+02	3.7539E+02
Α.	7.0350E+00	9.1253E+00	1 00075.01				
S			1.0097E+01	A '	7.2959E+00	9.7015E+00	1.0879E+01
Z	1.3903E+00	1.4731E+00	1.5269E+00	S	7.2959E+00 1.4209E+00	9.7015E+00 l.5122E+00	1.0879E+01 1.5695E+00
GAME	1.3479E+00	1.4731E+00 1.6271E+00	1.5269E+00 1.7435E+00	S 7	1.4209E+00 1.4008E+00	l.5122E+00 l.7051E+00	
	1.3470E+00 7.0620E-01	1.4731E+00	1.5269E+00	S Z GAME	1.4209E+00 1.4008E+00 7.0792E+01	l.5122E+00	1.5695E+00
Û	1.3479E+00	1.4731E+00 1.6271E+00	1.5269E+00 1.7435E+00	S 7	1.4209E+00 1.4008E+00	l.5122E+00 l.7051E+00	1.5695E+00 1.8249E+00
SPECIES	1.3470F+00 7.0620E-01 1.9548F+01	1.4731E+00 1.6271E+00 7.2858E-01	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00	S Z GAME	1.4209E+00 1.4008E+00 7.0792E-01 2.0757E+01	1.5122E+00 1.7051E+00 7.4028E-01	1.5695E+00 1.8249E+00 7.638LE-01 4.1180E+00
SPECIES	1.3479E+00 7.0620E-01 1.9548F+01	1.4731E+00 1.6271E+00 7.2858E-01 3.8461E+00	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00	S Z GAME U SPECIES	1.4209E+00 1.4008E+00 7.0792E-01 2.0757E+01	1.5122E+00 1.7051E+00 7.4028E-01 4.0443E+00	1.5695E+00 1.8249E+00 7.6381E-01 4.1180E+00
SPECIES	1.3479E+00 7.0620E-01 1.9548F+01	1.4731E+00 1.6271F+00 7.2858E-01 3.8461E+00 - MOLE FRACTIONS 3.8541E-01	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00	S Z GAME U SPECIES	1.4209E+00 1.4008F+00 7.0792E-01 2.0757E+01	1.5122E+00 1.7051E+00 7.4028E-01 4.0443E+00 - MOLE FRACTIONS 4.1351E-01	1.5695E+00 1.8249E+00 7.6381E-01 4.1180E+00
SPECIES E-	1.3479E+00 7.0620E-01 1.9548F+01 2.5812E-01 4.8377E-01	1.4731E+00 1.6271E+00 7.2858E-01 3.8461E+00 - MOLE FRACTIONS 3.8541E-01 2.2951E-01	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00	S Z GAME U SPECIES	1.4209E+00 1.4008E+00 7.0792E-01 2.0757E+01 3.0757E+01 4.2778F-01	1.5122E+00 1.7051E+00 7.4028E-01 4.0443F+00 - MOLE FRACTIONS 4.1351E-01 1.7375E-01	1.5695E+00 1.8249E+00 7.6381E-01 4.1180E+00
SPECIES E- A A+	1.3479E+00 7.0620E-01 1.9548F+01 	1.4731E+00 1.6271E+00 7.2858E-01 3.8461E+00 - MOLE FRACTIONS 3.8541E-01 2.2951E-01 3.8476E-01	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00 	S ? GAME U SPECIE:	1.4209E+00 1.4008E+00 7.0792E-01 2.0757E+01 3.0757E+01 4.2778F-01 2.8610E-01 2.8610E-01	L.5122F-00 1.7051E+00 7.4028E-01 4.0443F+00 - MOLE FRACTIONS 4.1351E-01 1.7375E-01 4.1196F-01	1.5695E+00 1.8249E+00 7.6381E-01 4.1180E+00
SPECIES E- A A+ A++	1.3470E+00 7.0620E-01 1.9548F+01 	1.4731E+00 1.6271E+00 7.2858E-01 3.8461E+00 - MOLE FRACTIONS 3.8541E-01 2.2951E-01 3.8476E-01 3.2257E-04	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00 	S ? ? GAME U SPECIES E~ A A+ A++	1.4209E+00 1.4008E+00 7.0792E-01 2.0757E+01 3	1.5122F-00 1.7051E+00 7.4028F-01 4.0443F+00 - MOLE FRACTIONS 4.1351E-01 1.7375E-01 4.1196F-01 7.7781E-04	1.5695E+00 1.8249E+00 7.6381E-01 4.1180E+00
SPECIES E- A A+ A++	1.3470F+00 7.0620E-01 1.9548F+01 2.5812F-01 4.8377F-01 2.5811E-01 5.6701E-06 2.1616E-15	1.4731E+00 1.6271E+00 7.2858E-01 3.8461E+00 - MOLE FRACTIONS 3.8541E-01 2.2951E-01 3.8275E-04 6.5222F-11	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00 	S Z GAME U SPECIES E- A A+ A++ A+++	1.4209E+00 1.4008E+00 7.0792E-01 2.0757E+01 3.0757E+01 4.2778F-01 2.8610E-01 1.0519E-05 9.2241E-15	1.5122E+00 1.7051E+00 7.4028E-01 4.0443F+00 - MOLE FRACTIONS 4.1351E-01 1.7375E-01 4.1196F-01 7.7781E-04 5.4980E-10	1.56.95E+00 1.8249E+00 7.6381E-01 4.1180E+00 4.5203E-01 1.0028E-01 4.337E-01 4.3275E-03 3.7955E-08
SPECIES E- A A+ A++ A+++	1.3470F+00 7.0620E-01 1.9548F+01 2.5812E-01 4.8377F-01 2.5811E-01 5.6701E-06 2.1616E-15 1.8252E-30	1.4731E+00 1.6271F+00 7.2858E-01 3.8461E+00 - MOLE FRACTIONS 3.8541E-01 2.2951E-01 3.2257E-04 6.5222F-11 8.8324E-22	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00 	S 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1.4209E+00 1.4008E+00 7.0792E-01 2.0757E+01 5 	1.5122F-00 1.7051E+00 7.4028E-01 4.0443F+00 - MOLE FRACTIONS 4.1351E-01 1.7375E-01 4.1196E-01 7.7781E-04 5.4980E-10 4.5169E-20	1.5695E+00 1.8249E+00 7.6381E-01 4.1180E+00 4.5203E-01 1.0028E-01 4.337E-01 4.3275E-03 3.7955E-08 1.1354E-16
SPECIES E- A A+ A++ A+++ A+++	1.3470F+00 7.0620F-01 1.9548F+01 2.5812F-01 4.8377F-01 2.5811E-01 5.6701E-06 2.1616E-15 1.8252E-30 6.6872E-51	1.4731E+00 1.6271E+00 7.2858E-01 3.8461E+00 - MOLE FRACTIONS 3.8541E-01 2.2951E-01 3.8476E-01 3.2257E-04 6.5222F-11 8.8324E-22 1.0686E-36	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00 	SPECIES E~ A A+ A++ A+++ A+++	1.4209E+00 1.4008E+00 7.0792E-01 2.0757E+01 3.0757E+01 4.2778F-01 2.8610E-01 1.0519E-05 9.2241E-15 2.7509E-29 5.2903E-49	1.5122F+00 1.7051E+00 7.4028F-01 4.043F+00 - MOLE FRACTIONS 4.1351E-01 1.7375E-01 4.1196F-01 7.7781E-04 5.4980E-10 4.5169E-20 5.4923E-34	1.5695E+00 1.8249E+00 7.6381E-01 4.1180E+00
SPECIES E- A A+ A++ A++ A++ A++ A++ AV AVI	1.3479F+00 7.0620E-01 1.9548F+01 2.5812F-01 2.5811F-01 5.6701F-05 2.1616E-15 1.8252E-30 6.6872E-51 4.0775E-77	1.4731E+00 1.6271E+00 7.2858E-01 3.8461E+00 - MOLE FRACTIONS 3.8541E-01 2.2951E-01 3.2257E-04 6.5222F-11 8.8324E-22 1.0686E-36 5.4048E-56	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00 4.2643E-01 1.4853E-01 4.2366E-01 1.3827E-03 2.3377E-09 6.8649E-19 4.3076E-32 2.8059E-49	S 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1.4209E+00 1.4008E+00 7.0792E-01 2.0757E+01 3.0757E+01 3.8612E-01 4.2778F-01 2.8610E-01 1.0519E-05 9.2241E-15 2.7509E-29 5.2903E-49 2.7344E-74	L.5122F-00 1.7051E+00 7.4028E-01 4.0443F+00 - MOLE FRACTIONS 4.1351E-01 1.7375E-01 4.1196E-01 7.7781E-04 5.4980E-10 4.5169E-20 5.4923E-34 4.7523E-52	1.5695E+00 1.8249E+00 7.6381E-01 4.1180E+00
SPECIES E- A A+ A++ A+++ A+++	1.3470F+00 7.0620F-01 1.9548F+01 2.5812F-01 4.8377F-01 2.5811E-01 5.6701E-06 2.1616E-15 1.8252E-30 6.6872E-51	1.4731E+00 1.6271E+00 7.2858E-01 3.8461E+00 - MOLE FRACTIONS 3.8541E-01 2.2951E-01 3.8476E-01 3.2257E-04 6.5222F-11 8.8324E-22 1.0686E-36	1.5269E+00 1.7435E+00 7.4857E-01 3.8320E+00 	SPECIES E~ A A+ A++ A+++ A+++	1.4209E+00 1.4008E+00 7.0792E-01 2.0757E+01 3.0757E+01 4.2778F-01 2.8610E-01 1.0519E-05 9.2241E-15 2.7509E-29 5.2903E-49	1.5122F+00 1.7051E+00 7.4028F-01 4.043F+00 - MOLE FRACTIONS 4.1351E-01 1.7375E-01 4.1196F-01 7.7781E-04 5.4980E-10 4.5169E-20 5.4923E-34	1.5695E+00 1.8249E+00 7.6381E-01 4.1180E+00

$p_1 = 1 \text{ kN/ m}^2$

P1 =	1.00E+03 N/SQ-M	 US 1= 7.60E+03 	M/SEC .	P1 = 1	.00E+03 N/SO-M	. US1= 8.00E+0	3 M/SEC .
		•		*			
	HONTHE SHOCK	CTANDENC CHOCK	DEEL COTED CHOCK				
	MOVING SHOCK					STANDING SHOCK	
P T	8.4014E+02	7.4520E+03	1.0699E+04	Ρ	9.3411E+02	8.5596E+03	1.2361E+04
	5,4536E+01	7.7076E+01	8.8902E+01	Ţ ,	5.6282E+01	8. 2881E+01	9.6753E+01
RHD	1.0786E+01	5.5436F+01	6.4597E+01	RHO	1-1178E+01	5.6799E+01	6.6170E+01
H	1.8440E+02	3.3088E+02	3.9774E+02	H	2.0433E+02	3.6765E+02	4.4332E+02
A	7.4311E+00	1.0027E+01	1.1250E+01	A	7-7109E+00	1.0723E+01	1.1819E+01
S	1.4366E+00	1.5320E+00	1.5909E+00	S	1.4687E+00	1.5709E+00	1.6319E+00
Z	1.4282E+00	1.7441E+00	. 1.8630E+00	Z	1.4848E+00	1.8183E+00	1.9308E+00
GAME	7:0897E-01	7.4788E-01	7.6415E-01	GAME	7.1152E-01	7.6293E-01	7.4774E-01
U	2.1372E+01	4.1637E+00	4.2869E+00	. U	2-2577E+01	4.4485E+00	4.5891E+00
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
						-	
E	2.9982E-01	4.2663E-01	4.6323E-01	E-	3.2649E-01	4.5003E-01	4. 8207E-01
Α .	4.0037E-01	1.4799E-01	8.1364E-02	A	3-4704E-01	1.03416-01	5.6950E-02
A+	2.9979E-01	4.2413E-01	4.4757E-01	A+	3.2644E-01	4.4310F-01	4.3988E-01
A++	1.4203E-05	1.2532E-03	7.8324E-03	A++	2.5557E-05	3.4640E-03	2.1094E-02
A+++	1-8720E-14	1.75046-09	1.6413E-07	A+++	7.4925E-14	2.0845E-08	/ L. 9967E-06
A++++	1.02956-28	. 3.79535-19	1.6593E-15	A++++	1.3489E-27	3.5448E-17	1.6531E-13
AV	4.3731E-48	1.5890E-32	9.3107E-27	AV	2.6012E-46	2.0282E-29	1.3376E-23
1 VA	6.0477E-73	6.2465E-50	1.4690E-41	IVA	2.2700E-70	1.9430E-45	5.5004E-37
AVII	0•	1.9943E-73	1.6354E-61	AVII	0.	4.7570E-67	5. 0960E-55
IIIVA	ō.	0.	9.3684E-86	AVIII	40.	0.	5.0796E-77
	•						•
Pl =	1.00F+03 M/SQ-M	. US1= 7.80E+03	M/SEC	P1 = 1	.00E+03 N/SQ-M	. US1= 8.20E+0	3 M/SEC
			-				
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MUNING SHUCK	STANDING SHOCK	REFLECTED SHOCK
D	8.8654E+02	8.0015F+03	1.1520E+04	Р	9.8282E+02	9.1241E+03	1.3212E+04
Ť	5.5402F+01	7.9830E+01	9.2918E+01	Ť	5.7181E+01	8.6218E+01	1.0026E+02
RHO	1.0989E+01	5.6250E+01	6.5326E+01	RHD	1.1354F+01	5.71176+01	6.7149E+01
			4.20326+02	H	2.1468E+02		
H	1.9424E+02	3.4906E+02		A		3.8663E+02	4.6646E+02
A	7.5692E+00	1.0370E+01	1.1557E+01		7.8565E+00	1.10626+01	1-2060E+01
S	1.4526E+00	1.5515E+00	1.6117E+00	S	1.4850E+00	1.5902E+00	1.6516E+00
Z	1.4562F+00	1.7819E+00	1.8979E+00	1 .	1.51396+00	1.8528E+00	1.9625E+00
GAME	7.1016E-01	7.5595E-01	7.5740E-01	GAME	7.1306F-01	7.6605E-01	7.3923E-01
U	2.1976E+01	4. 2984E+00	4.4434E+00	. U	2.31 776+01	4.6135E+00	4.7069E+00
	•	•					
SPECIE	s	- MOLE FPACTIONS		SPECIES'		- MOLE FRACTIONS	
E-	3.1328E-01	4.3881E-01	4.7309E-01	E-	3.3944F-01	4.6028E-01	4.9044E-01
Ā	3.7346E-01	1.2445E-01	6.7202E-02	A	3.2115F-01	8.53285-02	4.9581E-02
A+ :	3.1324E-01	4.3468E-01	4.4632E-01	A+	3.3938E-01	4.4852E-01	4.2952E-01
A++	1.9081E-05	2.0612E-03	1.3387E-02	A++	3.41768-05	5.8796E-03	3.0451E-02
A+++	3.75738-14	5.8719E-09	6.2685E-07	A+++	1.4884E-13	7.6337E-08	5. 2073E-06
A++++	3.7582E-28	3.4891E-18	1.9447E-14	A++++	4.7565E-27	3.8048F-16	9.8393E-13
AV	3.4375E-47	5.2594E-31	4.52296-25	AV	1.8279E-45	8.49846-28	2.2691E-22
AVI	1.21538-71	9.8836E-48	4.0494E-39	IVA	3.0619E-69	4-2834E-43	3.34276-35
AVII	0.	2.6456E-70	4.7482E-58	AVII	0.	9.9434E-64	1.7186E-52
IIIVA	. 0•	0.	4.2514E-81	AVIII	0.	9.4417E-89	1.2294E-73

P1 = 1.00E+03 N/SQ-M, US1= 8.40E+03 M/SEC	P1 = 1.00E+03 N/SQ-M. US1= 8.80E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
9 1.0327E+03 9.7015E+03 1.4090E+04	P 1.1358F+03 1.0894F+04 1.5844E+04
7 5.8103E+01 8.9677E+01 1.0354E+02	T 6.0044E+01 9.6430E+01 1.0929E+02
RHO 1.1515E+01 5.7403E+01 6.8223E+01	RHO 1.1792E+01 5.8113E+01 7.0419E+01
	H 2.4723E+02 4.4635E+02 5.3846E+02
	A 8.3227E+00 1.1830E+01 1.2782E+01
1113372.01	
	Z 1.6042E+00 1.9439E+00 2.0588E+00 GAME 7.1913E-01 7.4657E-01 7.2620E+01
GAME 7.1481E-01 7.6314E-01 7.3287E-01	
U 2.3774E+01 4.7745E+00 4.8448E+00	U 2.4962E+01 5.0711E+00 5.0196E+00
SPECIFS MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E+ 3.5213E-01 4.6939E-01 4.9868E-01	E- 3.7663E-01 4.8558E-01 5.1427E-01
A 2.9579E-01 7.0951E-02 4.3908E-02	A 2.4682E-01 5.1564E-02 3.5919E-02
A+ 3.5203E-01 4.4994E-01 4.1614E-01	A+ 3.7647E-01 4.4013E-01 3.8539E-01
A++ 4.5712E-05 9.7251F-03 4.1254E-02	A++ 8.2377E-05 2.2723E-02 6.4380E-02
AV 1.4093E-44 3.0861E-26 2.6216E-21	AV 9.6043E-43 1.5871E-23 1.2361E-19
AVI 6.3871E-68 7.6854E-41 1.1818E-33	AVI 3.6496E-65 6.4365E-37 3.3415E-31
AVII 0. 1.548?E-60 2.7533E-50	AVII 0. 5.6134E-55 8.8090E-47
AVIII 0. 1.7969E-84 1.1395E-70	AVIII 0. 5.1147E-77 6.2246E-66
•	
	·
•	
P1 = 1.00E+03 N/SQ-M, US1= 8.60E+03 M/SEC	P1 = 1.00E+03 N/SQ-M, US1= 9.00E+03 M/SEC
P1 = 1.00E+03 N/SQ-M, US1= 8.60E+03 M/SEC	P1 = 1.00E+03 N/SQ-M, US1= 9.00E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0837E+03 1.0290E+04 1.4959E+04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0837E+03 1.0299E+04 1.4959E+04 T 5.9056E+01 9.3197E+01 1.0649E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04 T 6.1078E+01 9.9506F+01 1.1194E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0837E+03 1.0290E+04 1.4959E+04 T 5.9056E+01 9.3197E+01 1.0649E+02 RHO 1.1661E+01 5.7642E+01 6.9326E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04. T 6.1078E+01 9.9506E+01 1.1194E+02. RHO 1.1906E+01 5.8635E+01 7.1461E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0837E+03 1.0290E+04 1.4959E+04 T 5.9056E+01 9.3197E+01 1.0649E+02 RHO 1.1661E+01 5.7642E+01 6.9326E+01 H 2.3613F+02 4.2597E+02 5.1413E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04 T 6.1078E+01 9.9506F+01 1.1194E+02 RHO 1.1906E+01 5.8635E+01 7.1461E+01 H 2.5858E+02 4.6722E+02 5.6321E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0837E+03 1.0290E+04 1.4959E+04 T 5.9056E+01 9.3197E+01 1.0649E+02 RHO 1.1661E+01 5.7642E+01 6.9326E+01 H 2.3613F+02 4.2597E+02 5.1413E+02 A 8.1618E+00 1.1612E+01 1.2540E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04 T 6.1078E+01 9.9506E+01 1.1194E+02 RHO 1.1906E+01 5.8635E+01 7.1461E+01 H 2.5858E+02 4.6722E+02 5.6321E+02 A 8.4904E+00 1.2043E+01 1.302EE+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0837E+03 1.0290E+04 1.4959E+04 T 5.9056E+01 9.3197E+01 1.0649E+02 RHO 1.1661E+01 5.7642E+01 6.9326E+01 H 2.3613F+02 4.2597E+02 5.1413E+02 A 8.1618E+00 1.612E+01 1.2540E+01 S 1.5182E+00 1.6679E+00 1.66905E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04. T 6.1078E+01 9.9506F+01 1.1194E+02. RHO 1.1906E+01 5.8635E+01 7.1461E+01. H 2.5858E+02 4.6722E+02 5.6321E+02 A 8.4904E+00 1.2043E+01 1.3028E+01. S 1.5521E+00 1.6641E+00 1.7289E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0837E+03 1.0290E+04 1.4959E+04 T 5.9056E+01 9.3197E+01 1.0649E+02 RHO 1.1661E+01 5.7642E+01 6.9326E+01 H 2.3613F+02 4.2597E+02 5.1413E+02 A 8.1618E+00 1.1612E+01 1.2540E+01 S 1.5182E+00 1.6279E+00 1.6905E+00 Z 1.5736F+00 1.9155E+00 2.0263E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04 T 6.1078E+01 9.9506F+01 1.1194E+02 RHO 1.1906E+01 5.8635E+01 7.1461E+01 H 2.5858E+02 4.6722E+02 5.6321E+02 A 8.4904E+00 1.2043E+01 1.3028E+01. S 1.5521E+00 1.6641E+00 1.7289E+00 Z 1.6351E+00 1.9728E+00 2.0918E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0837E+03 1.0290E+04 1.4959E+04 T 5.9056E+01 9.3197E+01 1.0649E+02 RHO 1.1661E+01 5.7642E+01 6.9326E+01 H 2.3613F+02 4.2597E+02 5.1413E+02 A 8.1618E+00 1.1612E+01 1.2540E+01 S 1.5182E+00 1.6279E+00 1.6905E+00 Z 1.5736F+00 1.9155E+00 2.0263E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04 T 6.1078E+01 9.9506F+01 1.1194E+02 RHO 1.1906E+01 5.8635E+01 7.1461E+01 H 2.5858E+02 4.6722E+02 5.6321E+02 A 8.4904E+00 1.2043E+01 1.3028E+01. S 1.5521E+00 1.6641E+00 1.7289E+00 Z 1.6351E+00 1.9728E+00 2.0918E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0837E+03 1.0299E+04 1.4959E+04 T 5.9056E+01 9.3197E+01 1.0649E+02 RHO 1.1661E+01 5.7642E+01 6.9326E+01 H 2.3613F+02 4.2597E+02 5.1413E+02 A 8.1618E+00 1.1612E+01 1.2540E+01 S 1.5182E+00 1.6279E+00 1.6905E+00 Z 1.5736E+00 1.9155E+00 2.0263E+00 GAME 7.1682E-01 7.2531E-01 7.2877E-01 U 2.4369E+01 4.9306E+00 4.9274E+00 SPECIES	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04 1.194E+02 1.194E+02 1.194E+02 1.194E+02 1.194E+02 1.194E+02 1.194E+02 1.194E+02 1.194E+03 1.194E+03
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04. T 6.1078E+01 9.9506E+01 1.1194E+02. RHO 1.1906E+01 5.8635E+01 7.1461E+01. H 2.5858E+02 4.6722E+02 5.6321E+02. A 8.4904E+00 1.2043E+01 1.3028E+01. S 1.5521E+00 1.6641E+00 1.7289E+00. Z 1.6351E+00 1.9728E+00 2.0918E+00. GAME 7.2181E-01 7.3887E-01 7.2478E-01. U 2.5552E+01 5.1947E+00 5.1069E+00. SPECIFS
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04. T 6.1078E+01 9.9506E+01 1.1194E+04. RHO 1.1906E+01 5.8635E+01 7.1461E+01. H 2.5858E+02 4.6722E+02 5.6321E+02. A 8.4904E+00 1.2043E+01 1.302EE+01. S 1.5521E+00 1.6641E+00 1.7289E+01. S 1.5521E+00 1.9728E+00 2.0918E+00. GAME 7.2181E-01 7.3887E-01 7.2478E-01. U 2.5552E+01 5.1947E+00 5.1069E+00. SPECIFS S S S S S S S S S
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.1890E+03 1.1510E+04 1.6734E+04. T 6.1078E+01 9.9506E+01 1.1194E+04. RHO 1.1906E+01 5.8635E+01 7.1461E+01. H 2.5858E+02 4.6722E+02 5.6321E+02. A 8.4904E+00 1.2043E+01 1.302EE+01. S 1.5521E+00 1.6641E+00 1.7289E+01. S 1.5521E+00 1.9728E+00 2.0918E+00. GAME 7.2181E-01 7.3887E-01 7.2478E-01. U 2.5552E+01 5.1947E+00 5.1069E+00. SPECIFS S S S S S S S S S

P1 =	1.00E+03 N/SQ-M	. US1= 9.20E+0	3 M/SEC		P1 =	1.00E+03 N/SQ-M	, US1= 9.60F+0	3 M/SEC
	HOUSE CHOCK	CEANDENC CHOCK	REFLECTED SHOCK					
_	MOVING SHOCK					HOVING SHOCK		REFLECTED SHOCK
P T	1.2433E+03	1.2137E+04	1.7625E+04		P	1.3551E+03	1.3400F+04	1.9390E+04
	6.2166E+01	1.02366+02	1-1452E+02		Ť	6.4562E+01	1.0755E+02	1.1941E+02
RHO	1.2002E+01	5.92285+01	7.2394E+01		RHO	1.2136E+01	6.0434E+01	7.3964E+01
H	2.7019E+02	4.8856F+02	5.8839E+02		н	2.9415E+02	5.3257E+02	6-4010E+02
Α `	8.6659E+03	1.2257E+01	1.3278E+01		A	9.0468E+00	1.2692E+01	1.3785E+01
S	1.5691E+00	1-6823E+00	1.7484E+00		\$	1.6036E+00 .	1.7188F+00	1.7871E+00
Z	1.6664E+00	2.0019E+00	2.1259E+00		Z	1.7295E+00	2.0617E+00	2.1953E+00
GAME	7.2494E-01	7.33llE-0l	7.2422E-01		GAME	7.3300E-01	7.2652E-01	7-2489E-01
U	2.6139E+01	5.30376+00	5.1911E+00		U	2.7302E+01	5.4907E+00	5.3555E+00
SPECIE	s	- MOLE FRACTIONS			SPECIE	s 	- MOLE FRACTIONS	
E	3.9990E-01	5.00496-01	5.2961E-01		E-	4.2179E-01	5.1497E-01	5.4448E-01
A	2.0036F-01	4.0443E-02	2.9948E-02		Ā	1.5671E-01	3.3210E-02	2.5068E-02
A+	3.9959E-01	4.17686-01	3.5138E-01		Ä+	4.2121E-01	3.8871E-01	3.1667E-01
A++	1.5174E-04	4.1384E-02	8.8948E-02		A++	2.9186F-04	6.3077E-02	1.1353E-01
A+++	5.2208F-12	1.1094E-05	1.1039E-04		A+++	2.5126E-11	3.6152E-05	2.4690E-04
A++++	3.4624E-24	3.7545E-12	3.3827E-10		A++++ .	6.2576F-23	3.5471E-11	1.6722E-09
AV	6.7046E-41	1.76366-21	2.7474E-18	•	AV	6.5635E-39	6.4735E-20	3.7577E-17
IVA	1.6803E-62	6.0605E-34	3.2045E-29	-	AVI	1.3196E-59	1.1718E-31	1.5347E-27
AVII .	6.5151E-92	9.45836-51	6.04775~44				1.7170E-47	1.56246-41
TIVA	0.51516 - 92	2.44748-71	4.2236F-62		IIVA IIIVA	9.1185E-88	5.9740F-67	7.7938F-59
~	•	20,,,,	112230. 02		WALL !	0.	2471491 - 07	1117300 37
P1 =	1.00E+03 N/SQ-M	. US1= 9.40E+(03 M/SEC		P1 =	, 1.00E+03 N/SQ-M	, US1= 9.80E+0	3 M/SEC
-	MOVING SHOCK	STAND ENG SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ .	1.2987E+03	1.2760E+04	1.8498E+04		P	1.4124E+03	1.4025E+04	2.0250E+04
т .	6.3344F+01	1.0503E+02	1.1697E+02 .		Ť	6.5906E+01	1.09945+02	1.21778+02
RHO	1-2070F+01	5.9803E+01	7.3220E+01		RHD	1.2169E+01	6.0963E+01	7.4550E+.01
н	2.8205E+02	5.1035E+02	6-1401E+02		H	3.0650E+02	5. 5522E+02	6.6662E+02
Α.	8.8547E+00	1.2473E+01	1.35276+01		Ä	9-2565E+00	1.2914E+01	1.4041E+01
S ·	1.5868E+00	1.7006E+00	1.7675E+00		Š	1.6208E+00	1.7371E+00	1.8063E+00
ž	1.6986E+00	2.0316E+00	2.1599E+00		ž	1.7610E+00	2.0926E+00	2.2306E+00
GAME	7.2871E-01	7.2912E-01	7.2430E-01		GAME	7.3824E-01	7.2498E-01	7.2585E-01
u ·	2.6722E+01	5.4011E+00	5.2728E+00		U	2.7878E+01	5.57266+00	5.4372E+00
ŭ	2.072201		3.21200+00	•	U	2.78782401	3.31200400	3.43726400
SPECIE	s	- MOLE FRACTIONS			SPECIE	s	- MOLE FRACTIONS	
E-	4.1128E-01	5.0777E-01	5.3702E-01		E-	4.3215E-01	5.2212E-01	5.5168E-01
Ā ź	1.7765E-01	3.6495E-02	2.7435E-02		Ä	1.3611E-01	3.0348E-02	2.2898E-02
A+	4.1086E-01	4.0372E-01	3.3424E-01		Ä+	4.3132E-01	3.7300E-01	2.9950E-01
A++	2.1042E-04	5.1993E-02	1.0114E-01		A++	4.1483E-04	7.4473E-02	1. 2556E-01
A+++ .*	1.1435E-11	2.0832E-05	1.6717E-04					3.5227E-04
A++++	1.4676E-23	1.2370E-11	7.6802E-10		A+++	5.8495E-11	5.8978E-05	
AV	6.59518-40	1.1889E-20	1.0488E-17		A++++	2.9320E-22	9-11276-11	3.4200E-09
AVI	4.6519E-61	9.8060E-33	2.3197E-28		AV	7.3202E-38	2.9718E-19	1.2201E-16
AVIT:					AVI	4.00116-58	1.09716-30	8.8049E-27
	7.4967E-90	4.9748E-49	1.0360E-42		IIVA	8-3776E-86	4.2065E-46	· 1.9232E-40
ÁVÍÍ Í	0.	5.0419E-69	1.9773E-60		IIIVA	0.	4.4950E-65	2.3380E-57

p, = 1 kN/m²

P1 =	1.00E+03 N/SQ-M	. US1= 1.00E+0	4 M/SEC	P1 = 1	.00E+03 N/SQ-	I, US1= 1.04E+0	4 M/SEC
			•				•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.4707E+03	1.4634E+04	2.1083E+04	P	1.58988+03	1.5774E+04	2.2626E+04
T	6.7383E+01	1.1222E+02	1.2414E+02	Ŧ	7.08696+01	1.16556+02	1.2877E+02
RHO	1.2177E+01	6.1390F+01	7-4917E+01	RHO	1.2106F+01	6.1826E+01	7.5061E+01
н	3.1910F+02	5.7824E+02	6.9356E+02	н	3.4503E+02	6.25315+02	7.4861E+02
A	9.48255+00	1.3139E+01	1-4305E+01	A	9.9925F+00	1.3594E+01	1.4838E+01
S	1.6381F+00	1.75555+00	1.8261E+00	S	1.6723E+00	1.7928F+00	1-8658E+00
Ž	1.7924F+00	2.1241E+00	2.2670E+00	Ž	1.8531F+00	2-1890E+00	2.3409E+00
GAME	7.4450E-01	7.24215-01	7.2713E-01	GAME	7.6035E-01	7.24346-01	7.3039E-01
U	2 - 8449F+01	5.6509F+00	5.5195E+00	U	2.9571E+01	5.7985E+00	5.6858E+00
	,						
SPECIE	5	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	4.4208E-01	5.2921E-01	5.5890E-01	F-	4.6035E-01	5.4316F-01	5.7282E-01
A	1.1645E-01	2.7797F-02	2.0807E-02	A	8.0685E-02	2.3326E-02	1.6982E-02
A+ .	4.4087E-01	3.5687E-01	2.8219E-01	. 🗛	4.5757E-01	3.2406E-01	2.4850E-01
A++	6.0304F-04	8.6033E-02	1.3761E-01	A++	1.3906E-03	1.0926F-01	1.6078E-01
A+++	1.4422E-10	9.1591E-05	4.9418E-04	A+++	1.0904F-39	1.9763E-04	9.1771E-04
A++++	1.5328E-21	2.1447E-10	6.7984E-09	A++++	6.2465F-20	9.7434E-10	2.4249E-08
AV	9.9017E-37	1.1900E-18	3.7921F-16	- AV	3.4772E-34	1.4010E-17	3.1196E-15
AVI	1.7107E-56		4.7464E-26	AVI	8.9189E-53	3.1977F-28	1.0926E-24
AVII	1.5714E-83	7.7689F-45	2.1667E-39	IIVA	4.5270E-78	1.4236E-42	1.9663E-37
AVIII	0.	2.2978E-63	6.23218-56	IIIVA	0.	2.6322E-60	2.8088E-53
P1 =	1.00E+03 N/SQ-M	. US1= 1.02F+0	4 M/SEC	P1 = 1	.00E+03 N/S0-M	. USl= 1.06E+0	4 M/SEC
	trouchus mise	. 031 10,021		•			5. 5
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.5299E+03	1.52206+04	2.1882E+04	P	1.6535E+03	1.6290E+04	2.3316E+04
T	6.9024E+01	1.1447E+02	1.2646E+02	T	7.2951E+01	1.1863E+02	1.3107E+02
RHO	1.2157E+01	6.1687F+OL	7.5108E+01	RHD	1.2024E+01	6.1795E+01	7.4787E+01
н	3.3195E+02	6.01615+02	7.2099E+02	н	3.5836E+02	6.4931E+02	7.7667E+02
A	9.7274E+00	1.3366F+01	1.4570E+01	A	1.0273E+01	1.3825E+01	1-5110E+01
S .	1.6553E+00	1.7741E+00	1.8459E+00	S	1.6893F+00	1.8117E+00	· 1.8860E+00
Z	1.8232E+00	2.1562F+00	2.3037E+00	Z	1.8816E+00	2.2223E+00	2.3786E+00
GAME	7.5192F-01	7.2405E-01	7.2866E-01	GAME	7.6891F-01	7. 2500E-01	7-3228E-01
·U	2.9013E+01	5.7259E+00	5.6065E+00	U	3.0122E+01	5.8694E+00	5-7703E+00
SPECTE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	4.5150E-01	5.3623E-01	5.6592E-01	E-	4-6854E-01	5.5001F-01	5.7959E-01
A .	9.7893F-02	2.54748-02	1.8846E-02	Ā	6.5142E-02	2.1318F-02	1.5210E-02
Ä+	4.4970E-01	3.4051E-01	2.6521E-01	Ā+	4.64108-01	3.0762F-01	2.3205E-01
A++	9.0108F-34	9.7654E-02	1.4934E-01	Ã÷÷	2.2199E-03	1.20786-01	1.7193E-01;
A+++	3.8075E-10	1.3673F-04	6.7877E-04	A+++	3.3911E-09	2.7817E-04	1.2256E-03
A++++	9.0738E-21	4.7047E-10	1.301 BE-OR	A++++	4.9272E-19	1.9243E-09	4. 4239E-08
AV	1.6385F~35	4.2707E-18	1.11166-15	AV	8.7638F-33	4.2643E-17	8. 4766E-15
AVI	1.0164E-54	5.5388E-29	2.3507E-25	IVA	8.9620E-51	1.65485-27	4-8456E-24
AVII	6.2892E-91	1.15386-43	2.1618E-38	IVA	2.71136-75	1.49546-41	1.6706E-36
AVIII	0.207271	8.7743E-62	1.4098E-54	AVILI	0.	6.32218-59	5. 0987E-52

P1 = 1	**************************************	. USI= 1.08E+0	4 M/SEC .	PI = I	*00F+03 M/20-W	USI= 1.15E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
р	1.7119E+03	1.6770E+04	2.3973E+04	P	1.9357E+03	1.8504E+04	
Ť. ~	7.5282E+01	1.2065E+02	1.3346E+02	7	8.4094E+01	1. 2781E+02	2.6292E+04
RHO	1.1916E+01	6. 1619E+01	7-4292E+01	RHO	1.1579E+01	6.0889E+01	1.4200E+02
H	3.7193E+02	: 6.7361E+02	8.0573E+02	H	4.2139E+02		7-2561E+01
A		1.4057E+01	1.5394E+01	Ā		7.6207E+02	9.0931E+02
	1.05548+01				1.1229E+01	1.4905E+01	1.6392E+01
S	1.7060E+00	1.8307E+00	1.9070E+00	Ş	1.7624E+00	1.8975E+00	1-9779E+00
Z	1.9083E+00	2.2561F+00	2.4179E+00		1.9880E+00	2.3777E+00	2.5517E+00
GAME		7.2596E-01	7.3434E-01	GAME U	7.5423E-01	7.3103E-01	7.4153E-01
U	3.0665E+01	5.9394F+00	5.8876E+00	U	3.2565E+01	6.2012E+00	6.1918E+00
: *	* *			*			
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
		.,,,	•	5. 20125	•		•
E-	4.7598F-01	5.5675E-01	5.8641E-01	E-	4.9699E-01	5.79436-01	6.0810E-01
Α	5.1693E-02	1.9433E-02	` 1.3487E-02	A	2.4074E-02	1.3772E-02	8.5845E-03
A+	4.6869E-01	2.9127E-01	2.1542E-01	A+	4.6088E-01	2.3523E-01	1.6260E-01
A++ ·	3.6456F-03	1.3216E-01	1.8305E-01	A++	1.8057E-02	1.70526-01	2.1663E-01
A+++	1.1358E-08	3.8312F-04	1.6334E-03	A+++	5.98178-07	1.0513E-03	4.0787E-03
A++++ .	4.4655E-18	3.6567E-09	8.0742E-08	A+++	6.2813E-15	2.88786-08	5.7418E-07
AV	2.7869E-31	1.2221E-16	2.3097E-14	AV	2.4735E-26	3.72236-15	6.2285E-13
AVI -	1.3151E-48	7.8528E-27	2.1604E-23	IVA	1.8298E-41	1.2562E-24	2.9990E-21
AVII	3.1838E-72	1.3926E-40	1.4282E-35	AVII	4.35536-62	2.0337E-37	1.7125E-32
AVIII	0.	1.2917E-57	9.3191E-51	IIIVA	3.4566E-87	2.49416-53	1.3883E-46
			7.77		. 30111022 01	20131111 23	1450050 40
							•
					٠.		
D1 = 1	1.00E+03 N/SQ-M	. US1= 1.10E+0	A MISEC	01 = 1	.00E+03 N/SO-M	. US1= 1.20E+0	4 M/CEC
		J		F	200[70] 11737=11	V 031- 1.20C+U	4 47350
	MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
р 🦠 🕠	1:7742F+03	1.7231E+04	2-4580E+04	Ρ	2.1073E+03	2.0136E+04	2.8561E+04
1	7.7811E+01	1.2266E+02	1.3577E+02	т	8.9277E+01	1.3340E+02	1.4905E+02
RHO ·	1.17978+01	6.1335E+01	7.3725E+01	RHO ·	1.1558F+01	6-1184E+01	7.2369E+01
H 1 1	3.8574E+02	6.9825E+02	8.3447E+02	H	4.5873E+02	8.2973E+02	9.8947E+02
Α	1.08058+01	1.4292E+01	1.5669E+01	· A	1.1567E+01	1.5562F+01	1.7156E+01
S	1.7224E+00	1.8499F+Q0	1-9271E+00	Š	1.8014E+00	1.94456+00	2.02796+00
2	1.9329E+00	2.2903E+00	2.4556E+00	ž	2.0422E+00	2.4670E+00	2.6479E+00
GAME	7.7618E-01	7.2716E-01	7.3638E-01	GAME	7.3380E-01	7. 3582E-01	7.4581E-01
Ü	3.1204E+01	6.0099E+00	5.9693E+00	II.	3.3975E+01	6. 42 76E+ 00	6.4445E+00
	. 5012040.01	1 -	3676736.00	· ·	3437132101	3. 42 / 30 / 30	
		•	•				•
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
	. 4 03465 ^*	5 4330F 01	E 02775 01	c	E 10225 01	5 0446 0°	4 22245 22
E A tpi-s	4.8265E-01	5.6338E-01	5.9277E-01	€	5.1033E-01	5.9466E-01	6.2234E-01
A	4.0738F-02	1.7667E-02	1.1953E-02	A	1.6707E-02		5.9372E-03
	4.7058E-01	2.75058-01	1.9993E-01	A+	4.3560F-01	1.9702E-01	1.2874E-01
A++	6.0364E-03	1.4339E-01	1.9322E-01	A++	3.7360F-02	1.9576E-01	2.3535E-01
A+++	3.9086E-08	5.1861F-04	2.1305E-03	A+++	3.9370E-06	2.0386E-03	7.6272E-03
A++++	4.2621E-17	6.7455E-09	1.4159E-07	A++++	2.0641E-13	1.1736E-07	2.3161E-06
AV	9.6821E-30	3.3468E-16	5.9039E-14	AV	6.1799E-24	3.9017E-14	6.7036E-12
AVI							
	2.2391E-46	3.4947E-26	8.7722E-23	IVA	5.3522E-38	4.2309E-23	1.0829E-19
AVII	4.9513E-69	1.1866F-39	1.0675E-34	AVII	3.4504E-57	3.2277E-35	3.0189E-30
IIVA AVITI							

Pl =	1.00E+03 N/SQ-M	, US1= 1-25E+0	4 H/SFC	P1 = L	-00E+03 N/SQ-M	. US1= 1.35E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK		REFLECTED SHOCK
P	2.2882E+03	2.2053E+04	3.1291E+04	ρ	2.6752E+03	2.6417E+04	3.7602E+04
Ť	9.3513E+01	1.3954E+02	1.5683E+02	T	1.0062E+02	1.5317E+02	1.7328E+02
RHO	1.1655E+01	6.1791E+01	7.2744F+01	RHO	1.1959E+01	6.3094E+01	7.4175E+01
н	4.9773E+02	9.0096E+02	1.0749E+03	н	5.8060E+02	1.0530E+03	1.2587E+03
Ä	1.1924E+01	1.62615+01	1.7938E+01	A	1.2685E+01	1.7691E+01	1.9471E+01
ŝ	1.8399E+00	1.9912E+00	2.0774E+00	s ·	1.9171E+00	2.0821E+00	2.1741E+00
ž	2.0994E+00	2.55775+00	2.7428F+00	ž	2.2232E+00	2. 7336E+00	2.9255E+00
GAME		7.4088E-01	7.4802E-01	GAME	7.1930E-01	7.4746E-01	7.4789E-01
U	7.2425E-01	6.6920F+00	6.7350E+00	Ü	3.8343E+01	7. 2775E+00	7.3577E+00
U	3.54198+01	3.07207700	0.73302.00	-			•
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	5.23685-01	6.0903E-01	6.3541E-01	€-	5.5019E-01	6.3419E-01	6.5818E-01
A			3.95588-03	Ā.	8.5487E-03	3.8537E-03	1.6800E-03
Ã+	1.2840E-02	7.7855E-03	9.95998-02	Ã+ ·	3.3243E-01	1.0187E-01	5.8055E-02
A++	4-0330E-01	1.6119E-01		A++	1.0875E-01	2.4796E-01	2.4624E-01
	6.0166E-02	2.18166-01	2.4730E-01	A+++	8.7544E-05	1.2124E-02	3.5756E-02
A+++	1.4549E-J5	3.9402E-03	1.3724E-02	A++++	7.97346-11	6.2899E-06	9.49858-05
A++++	2.4395E-12	4.6510E-07	8.9893E-06	AV	9.0778E-20	3.4912E-11	4.3973E-09
AV	3.2021E-22	4.0109E-13	6.9462E-11			1.2260E-18	2.2011E-15
AVI	1.6991E-35	1.4109E-21	3.7766E-18	AVI	6.7850E-32 1.8727E-48	9.0745E-29	5. 2255E-24
AVII	1.3026F-53	5.1103E-33	5.1116E-28	AVII		1.4542E-41	5.0538E-35
IIIVA	8.2341E-76	2.37758-47	1.6974E-40	AVIII	7.5633E-69	1.43426-41	3. 0336E-33,
P1 =	1.00E+03 N/SQ-H	, US1= 1.30E+0	4 M/SEC	P1 = 1	+00E+03 N/ SQ-M	. US1= 1.40E+0	4 H/SEC
	MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	2.4777E+03	2.4169E+04	3.4337E+04	р .	2.8802E+03	2.8783E+04	4.1051E+04
Ť	9.7210E+01	1.4612E+02	1.6504E+02	į,	1.0387E+02	1.6050E+02	1.8159E+02
RHO	1.1801E+01	6.2505E+01	7.3371E+01	RHO.	1.2118E+01	6.3632E+01	7.4941E+01
H	5.3836E+02	9. 7549E+02	1.1649E+03	H	6.2444E+02	1.1335E+03	1.3562E+03
Ä		1.6974E+01		Δ .	1.3081E+01	1.8392E+01	2.0249E+01
ŝ	1.2298E+01	2.03678+00	1.8712E+01	ŝ	1.9557E+00	2. 1271E+00	2.222E+00
ž	1.8784E+00		2.1264E+00	ž		2.8183E+00	3.0166E+00
GAME	2.1599E+00	2.6464E+00	2.8355E+00	GAME	Z.2884E+00	7.4782E-01	7.4854E-01
U	7.20368-01	7-4508E-01	7.4820E-01		7-1987E-01	7.5912E+00	7.6668E+00
U	3.6878E+01	6.9714E+00	7.0462E+00	U.	3.9809E+01	7.59122400	7.0,0002400
SPECIE	s	- MOLE FRACTIONS		SPECIES	, -	- MOLE FRACTIONS	
€-	5.3701E-01	6.2213E-01	6.4733E-01	E	5.6301E-01	6.4517E-01	6.6850E-01
Ā	1.0364E-02	5.5784E-03	2.57636-03	<u>.</u> .	7.11228-03	2.6045E-03	1.0916E-03
Ã+	3.6829E-01	1.29426-01		Ä+	2.9692E-01	7.9292E-02	4.4124E-02
A++			7.6042E-02	A++	1.32788-01	2.5293E-01	2.3472E-01 "
A+++	8.4303E-02	2.3592E-01	2.5088E-01			1.9982E-02	5. 1312E-02
	3.9128E-05	6.9522E-03	2. 3136E-02	A+++	1.7397E-04		
A++++	1.6387E-11	1.7514E-06	3.1569E-05	A++++	3.1533E-10	2.0656E-05	2.5101E-04
AV	6.9045E-21	3.8586E-12	6.2325E-10	AV	8.6606E-19	2.7668E-10	2.5388E-08
AVI	1.5218E-33	4.32348-20	1.0829E-16	IVA	1.9061E-30	2.8898E-17	3.3602E-14
IIVA	7.97916-51	7.1881E-31	6.5930E-26	IIVA	2.2667E-46	8.8063E-27	2.7653E-22
	4.6345E-72	1.9944E-44	1.2835E-37	. AVIII	4.9774E-66	7.4417E-39	1. 1593E-32

P1 = 1.00E+03 N/SQ-M. US1= 1.45E+04 M/SEC	P1 = 1.00E+03 N/SQ-M, US1= 1.55E+04 M/SEC
MOVING SHOCK, STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 3.0927E+03 3.1222E+04 4.4591E+04	P 3.5390E+03 3.6272E+04 5.1939E+04
T 1.0712E+02 1.6792E+02 1.8982E+02	T 1.1377E+02 1.8252E+02 2.0628E+02
RHD 1.2251E+01 (6.4089E+01 7.5566E+01	RHO 1.2458E+01 6.4823E+01 7.6393E+01
H 6.6987E+02 1.2169E+03 1.4570E+03	H 7.6548E+02 1.3921E+03 1.6688E+03
A	A 1.4376E+01 2.0458E+01 2.2705E+01
5 . 1.9952E+00 2.1717E+00 2.2701E+00	S 2.0743E+00 2.2600E+00 2.3642E+00
Z ~ 2.3567E+00	Z 2.4970E+00 3.0658E+00 3.2959E+00
GAME 7.2158E-01 7.4721E-01 7.5065E-01	GAME 7.2752E-01 7.4796E-01 7.5820E-01
U 4.1273E+01 7.8943E+00 7.9704E+00	U 4.4184E+01 8.5025E+00 8.5758E+00
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
TOTAL TRACTIONS	SPECIES
E- 5.7568E-01 6.5531E-01 6.7833E-01	E- 5.9952E-01 6.7382E-01 6.9659E-01
A 5.8814E-03 1.7459E-03 7.1026E-04	A 3.8901E-03 7.9156E-04 2.9789E-04
A+ 2.6153E-01 6.1460E-02 3.3447E-02	A+ 1.9464E-01 3.6972E-02 1.8860E-02
A++. 1.5659E-01 2.5068E-01 2.1824E-01	A++ 2.0097E-01 2.2877E-01 1.7738E-01
A+++ 3.2413E-04 3.0751E-02 6.8684E-02	A+++ 9.8360E-04 5.9299E-02 1.0449E-01
A++++ 1.1210E-09 6.0202E-05 5.8457E-04	A++++ 1.1455E-08 3.5158E-04 2.3703E-03
AV 7.0419E-18 1.9233E-09 1.2016E-07	AV 3.4121E-16 4.3894E-08 1.7094E-06
AVI 4.2754E-29 5.2327E-16 3.8489E-13	AVI 1.4071E-26 7.3195E-14 2.6249E-11
AVII 1.9967E-44 5.8726E-25 9.7422E-21	AVII 8.7784E-41 7.8089E-22 4.7927E-18
AVIII 2.1250E-63 2.2988E-36 1.5399E-30	AVIII 1.9459E-58 4.3468E-32 7.8365E-27
P1 = 1.00E+03 N/SQ-H, US1= 1.50E+04 M/SEC	P1 = 1.00E+03 N/SQ-M, US1= 1.60E+04 M/SEC
P1 = 1.00E+03 N/SQ-H, US1= 1.50E+04 M/SEC	P1 = 1.00E+03 N/SQ-M. US1= 1.60E+04 M/SEC
and the second s	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.3123E+03 3.3724E+04 4.8233E+04 T 1.1039E+02 1.7527E+02 1.9800E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.7725E+03 3.8832E+04 5.5663E+04 T 1.1734E+02 1.8976E+02 2.1468E+02
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P1 =	1.00E+03 N/SQ-	4. US 1= 1.65E+0	4 M/SEC		P1 =	1.00E+03 N/SQ-	US1= 1.75E+	D4 M/SEC
*							•	,
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	4.0127E+03	4. 1371E+04	5.9440E+04		P	4.5125E+03	4.6317E+04	6.6767E+04
T,	1.2117E+02	1.9689E+Q2	2.2344E+02		T	1.2982E+02	2.1127E+02	2.4079E+02
RHC	1.2544E+01	6.4952E+01	7.6236E+01		RHO	1.2506E+01	6.4357E+01	7.5318E+01
• н	8.6738E+02	1.5781E+03	1.8965E+03		н	9.7554E+02	1.7742E+03	2.1367E+03
A	1.5344E+01	2.1904E+01	2.4443É+01		A	1.6382E+01	2.3398E+01	2.6119E+01
S	2.1538E+00	2.3482E+00	2.4585E+00		S	2.2329E+00	2.4349E+00	2.5510E+00
Z	2.6401E+00	3.2350E+00	3.4894E+00		Z	2.7795E+00	3.4065E+00	3.6814E+00
GAME	7.3602E-01	7.5326E-01	7.6627E-01		GAME	7.4374E-01	7.6068E-01	7.6956E-01
U	4.7063E+01	9.09476+00	9.2684E+00		U	4.9902E+01	9.71016+00	9.9512E+00
SPECIE	S	MOLE FRACTIONS			SPECIE	S	- MOLE FRACTIONS	
		ABEL TRACTIONS		-				
E	6.2122E-01	6.9088E-01	7.1342E-01		E-	6.4022E-01	7.0644E-01	7.2837E-01
A	2.3474E-03	3.5718E-04	1.1739E-04		A	1.2397E-03	1.5711E-04	4.5031E-05
A+ ,	1.3442E-01	2.1924E~02	1.0024E-02		A+	8.4548E-02	1.2614E-02	5. 1 31 2E-03
A++	2-3923E-01	1.9295E-01	1.3339E-01		A++	2.6629E-01	1.5280E-01	9. 4695E-02
A+++	2.7786E-03	9.2488E-02	1.3559E-01		A+++	7.6989E-03	1.2371E-01	1.5332E-01
A++++	1.0871E-07	1.4010F~03	7.4384E-03		A++++	1.0737E-06	4.2669E-03	1.8336E-02
AV	1.5222E-14	5.7990E~07	1.6581E-05		AV	7.5848E-13	5.0444E-06	1.1041E-04
AVI	4-1916E-24	4.3019E-12	1.0421E-09		AVI	1.5203E-21	1.3836E-10	2.3974E-08
I J VA	3.3161E-37	3.0373E~19	1. 1024E-15		AVII	1.6827E-33	5.0280E-17	1.1719E-13
AVIII	1.4048E-53	1.5745E-28	1.4385E-23		AVIII	1.54848-48	1.8052E-25	9.3166E-21
P1 =	1.00E+03 N/SQ-N	. US1= 1.70E+0	4. M/SEC		. P1 =	1.00E+03 N/SQ-H	. USI= 1.80E+0	04 M/SEC
_	MOVING SHOCK	STANDING SHOCK			•		STANDING SHOCK	
P	4.2594E+03	4.3868E+04	6.3133E+04		P	4.7724E+03	4. 8750E+04	7.0377E+04
T	1.2531E+02	2. 0400E+02	2.3209E+02			1.3463E+02	2.1877E+02	2.4953E+02
RHO	1.2539E+01	6.4771E+01	7.5876E+01		RHO	1.2457E+01	6.3758E+01	7.4635E+01
H	9.2068E+02	1.6749E+03	2.0151E+03		H	1.0320E+03	1.8760E+03	2.2610E+03
A	1.5859E+01	2.2642E+01	2.5290E+01		A	1.689ZE+01	2. 41 70 E+ 01	2.6932E+01
S	2.1935E+00	2.3914E+00	2.5046E+00		S Z	.2.2720E+00	2.4792E+00	2.5979E+00
Ζ	2.7107E+00	3.3199E+00	3.5851E+00			2.8458E+00	3.4950E+00	3.7790E+00
GAME	7.4041E-01	7.5691E-01	7.6866E-01		GAME	7.4479E-01	7.6401E-01	7.6923E-01
·U	4.8487E+01	9.3983E+00	9.6139E+00		U	5.1310E+01	1.0027E+01	1.0276E+01
SPECIE	s —	- MOLE FRACTIONS			SPECIE	s	- MOLE FRACTIONS	
E-	6.3109E-01	6.9879E-01	7.2107E-01		E-	6.4860E-01	7.1388E-01	7.3538E-01
Ā	1.7364E-03	2.3892E-04	7.2976E-05		A	8.6009E-04	1.01236-04	2.7710E-05
A+	1.0789E-01	1.6753E-02	7.2084E-03		A+	6.5034E-02	9.33316-03	3.6258E-03
A++	2.5464E-01	1.7314E-01	1.1318E-01		A++	2.7295E-01	1.32546-01	7.8251E-02
A+++	4.6382E-03	1.0858E-01	1.4643E-01		A+++	1.2548F-02	1.37136-01	1.5587E-01
A++++	3.4004E-07	2.5014E-03	1.1995E-02		A++++	3.33596-06	7.00388-03	2.6596E-02
AV	1.0603E-13	1.7682E-06	4. 4591E-05		AV	5.3482E-12	1.3645E-05	2.5184E-04
AVI	7.8029E-23	2.5557E-11	5.3061E-09		AVI	2.9291E-20	6.97136-10	9.6157E-08
IIVA	2.29188-35	4.1709E-18	1.2365E-14		AVII	1.22248-31	5.4897E-16	9.3937E-13
IIIVA	4.5059F-51	5.8180F-27	4-1007F-22		AVIII	5.3039E-46	4.9107E-24	1.6896E-19

`P1 = 7	2.00E+03 N/SU-M	, US1= 2.00E+0	3 M/SEC		P1 =	2.00E+03 N/SQ-M	. USI= 2.40E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	•		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	4.7899E+01	8.4639E+01	2.6241E+02		P	6.9071E+01	1.2768E+02	3.7261E+02
T	1.2892E+01	1.6278E+01	2.8646E+01		T	1.8180E+01	2.3358E+01	3.5696E+01
RHO	3.7155E+00	5.1998E+00	9.1448E+00		RHO	3.7993E+00	5.4652E+00	1.0278E+01
н	1.2892E+01	1.6278E+01	2.9118E+01		н	1.8181E+01	2.3404E+01	4.0092E+01
Ä	3.5905E+00	4.0344E+00	5.1368E+00		- A	4.2625E+00	4.7969E+00	5.3300E+00
ŝ	1.1119E+00	1.1125E+00	1.1269E+00		ŝ	1.1337E+00	1.1345E+00	1.14886+00
ž	1.0000E+00	1.0000E+00	1.0017E+00		ž	1.0000E+00	1.0002E+00	1.0156E+00
GAME	1.0000E+30	9.9991E-01	.9.19538-01		GAME	9.9937E-01	9.8494E-01	7.8359E-01
Ü	4.5391E+00	3.2319E+00	3.0928E+00		Ü	5.4902E+00	3.8044E+00	3.2413E+00
SPECIE:	s	- MOLE FRACTIONS			SPEC 1E	s	- MOLE FRACTIONS	
_								
E-	3.2955E-09	4.6172E-07	1.7296E-03		E-	4.1842E-06	1.7310E-04	1.5408E-02
A	1.0000E+00	1.0000E+00	9.9654E-01		A	9.9999E-01	9.9965E-01	9.6918E-01
Δ+	3.2955E-09	4.6172E-07			A+	4-1842E-06	1.7310E-04	1.5408E-02
A++	1.8126E-33	9.7716E-27	8-0245E-14		A++	3.70C6E-23	2.0259E-17	1.6261E-10
4+++	1-4703E-73	3.29518-58	1.9847E-32		A+++	4.1907E-52	1.8838E-40	3.10536-25
A++++	0.	0.	9.8073E-62		A++++	0.	5.5011E-76	1.9577E-48
AV	0.	0.	0.	•	AV	0.	. 0.	6.8560E-79
IVA	0.	0.	0.		IVA	ŷ• ·	0.	0.
AVII	0.	. 0.	0.		AVII	0.	0.	0.
IIIVA	0.	0.	0.		111VA	0.	0.	0.
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		•		•				
	•				•			
01 -	2.00E+03 N/SQ-M	. US1= 2.20E+0	3 4/550			2.00E+03.N/S0=M	. USI= 2.60E+0	13 M/SEC
	£1002+03 N/3Q-N	031- 2120270	3 H/3CG			200000000000000000000000000000000000000	V 031- 2,000.0	,5 H/320
	MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK	*		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	5.8003E+01	1.0492E+02	3.1711E+02		P	8.1120E+01	1.5579E+02	4.2966E+02
Ť	1.5416E+01	1.9659E+01	3.26695+01		T	2.1175E+01	2.73556+01	3.8077E+01
RHO	3.7624E+00	5.3369E+00	9.6403E+00		RHD		5.6879E+00	1.0988F+01
н	1.5416E+01	1.9662E+01	3.4578E+01		н	2.1188E+01	2.7704E+01	4.5722E+01 '
Ä	3.9263E+00	4.4301E+00	5.2408E+00		A	4.5892E+00	5.0513E+00	5.4372E+00
ŝ	1.1232E+00	1.1239E+00	1.1382E+00		ŝ	1.1436E+00	1.1445E+00	1.15935+00
Ž	1.0000E+00	1.0000E+00	1.0069E+00		Ž .	1.0001E+00	1.0013E+00	1.0269E+00
GAME	9.9996E-01	9.9831E-01	8.3499E-01		GAME	9.9455E-01	9.3155E-01	7.5604E-01
U	5.0154E+00	3.5236E+00	3.2231E+00		· U	5.9649E+00	4.0042E+00	3.1872E+00
			•					
SPECIE	s	- MOLE FRACTIONS			SPECIE	s	- MOLE FRACTIONS	
E-	1.8428E-07	1.32316-05	6.8375E-03		E-	5.0102E-05	1.2833E-03	2.6226E-02
A .	1.0000E+00	9.9997E-01	9.8633E-01		Ā	9.9990E-01	9.9743E-01	9.47558-01
A+	1.8428E-07	1.3231E-05	6.8375E-03		Ā÷	5.0102E-05	1.2833E-03	2.6226E-02
A++	8.6701E-28	2.9199E-21	9.37106-12		A++	2.2815E-19	2.0464E-14	1.0939E-09
4+++	5.2474E-63	1.1524E-48	6-1451E-28		A+++	1.2139E-44	7.2602E-34	2.0786E-23
A++++	0.	0.	1.98428-53		A++++	2.7143E-84	8.5942E-65	6.0504E-45
AV	0.	0.	9.7399E-87		AV	0.	0.	1.1098E-73
AVI	0.	0.	0.		AVI	0.	0.	0.
AVII	0.	0.	0.		IIVA	0.	0.	0.
AVIII	. 0.	0.	0.		AVIII	ŏ.	0.	0.
M 7 8 8 1	• ••	•			~***	••	••	••

P1 = 2.00E+03 N/SQ-H, US1= 2.80E+03 M/SEC	P1 = 2.00E+03 N/SQ-M, US1= 3.20E+03 M/SEC
MOVING SHOCK 9.4246E+01 1.9574E+02 4.9283E+02 2.4350E+01 3.1384E+01 4.0156E+01 3.8659E+00 6.2016E+00 1.1794E+01 4.24447E+01 3.2953E+01 5.1803E+01 4.8663E+00 5.1615E+00 5.5600E+00 5.1792E+00 2.1.0004E+00 1.0057E+00 1.0406E+00 GAME 9.7218E-01 8.4405E-01 7.3979E-01 U 6.4462E+00 4.0045E+00 3.1425E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2484E+02 3.1633E+02 6.6360E+02 T 3.0438E+01 3.7730E+01 4.3949E+01 RHO 4.0807E+00 8.1492E+00 1.4042E+01 A 5.0946E+01 5.3977E+00 5.8456E+01 5.0946E+00 1.1737E+00 1.935E+00 2 1.0051E+00 1.0288E+00 1.0753E+00 GAME 8.4840E-01 7.5056E-01 7.2336E-01 U 7.4911E+00 3.7325E+00 3.0837E+00
SPECIES NOLE FRACTIONS	SPECIES MOLE FRACTIONS
E- 3.6121E-04 5.6571E-03 3.9054E-02 9.9928E-01 9.8869E-01 9.2189E-01 3.6121E-04 5.6571E-03 3.9054E-02 4.7113E-09 4.4++ 2.0153E-16 3.5632E-12 4.7113E-09 4.4++ 1.2805E-72 9.2592E-56 2.4079E-42 4.71 3.605E-72 9.2592E-56 2.4079E-42 4.71 3.605E-72 9.2592E-56 2.4079E-42 4.71 3.605E-72 9.2592E-56 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	E- 5.0447E-03 2.8018E-02 7.0017E-02 A 9.8991E-01 9.4396E-01 8.5997E-01 A+ 5.0447E-03 2.8018E-02 7.0017E-02 A++ 1.7986E-12 1.1194E-09 4.4503E-08 A+++ 1.0383E-29 1.7995E-23 7.9078E-20 A++++ 9.0022E-57 3.7342E-45 2.6976E-38 AV 0. 4.2916E-74 5.1851E-63 AVI 0. 0. 0. AVII 0. 0. 0. AVII 0. 0. 0.
P1 = 2.00E+03 N/SQ-M, US1= 3.00E+03 M/SEC	P1 = 2.005+03 N/SU-M. US1= 3.40E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0875E+02 2.4947E+02 5.6886E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4307E+02 4.0069E+02 7.8879E+02 T 3.2930E+01 4.0246E+01 4.5836E+01 RHJ 4.2967E+00 9:5188E+00 1.5693E+01 A 3.6021E+01 5.3410E+01 7.4328E+01 A 5.1492E+00 5.5565E+00 6.0104E+00 S 1.1787E+00 1.1842E+00 1.2059E+00 Z 1.0111E+00 1.0460E+00 1.0966E+00 GAME 7.9630E-01 7:3397E-01 7.1871E-01 U 8.0881E+00 3.6401E+00 3.0603E+00
	2 5 N 2
E- 1.6652E-03 1.4857E-02 5.3829E-02 A 9.9667E-01 9.7029E-01 8.9234E-01 A+ 1.6652E-03 1.4857E-02 5.3829E-02 A++ 3.5513E-14 1.1007E-10 1.5841E-08 A+++ 2.1330E-33 1.0693E-25 7.7292E-21 A+++ 1.5476E-63 2.8201E-49 3.4574E-40 AV 0. 1.2263E-80 4.3007E-66 AVI 3. 0. 0. AVII 0. 0. 0.	E- 1.1023E-02 4.3940E-02 8.8079E-02 A 9.7795E-01 9.1212E-01 8.2384E-01 A+ 1.1023E-02 4.3940E-02 8.8079E-02 A++ 2.7573E-11 6.1856E-09 1.1416E-07 A+++ 4.4381E-52 4.5804E-42 1.4007E-36 AV 3.2193E-85 3.6412E-69 2.4761E-60 AVI 0. 0. 0. 0. AVII 0. 0. 0. 0.

	2.00E+03 N/SQ-M	. US1= 3.60E+0	3 M/SEC	. PI = 2	•00E+03, N/SQ-M	, US1= 4.00E+0	3 M/2FC
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	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.6332E+02	5.0750E+02	9.4641E+02	P	2.0803E+02	7.7571E+02	1.3422E+03
Ť	3.5037E+01	4.2568E+01	4.7737E+01	T	3.8425E+01	4.6665E+01	5.1407E+01
RHO	4.5714E+00	1.1183E+01	1.7694E+01	RHD	5.1954E+00	1.4950E+01	2.2255E+01
н	4.0537E+01	6.1723E+01	8.366E+01	н	5.0355E+01	7.9787E+01	1.0422E+02
7	5.2245E+00	5.7347E+00	6.1878E+00	X	5.4153E+00	6.0953E+00	6.5562E+00.
ŝ	1.18758+00	1.1954E+00	1.2190E+00	Š	1.2060E+00	1.2198E+00	1.2472E+00
i .	1.0197E+00	1.0661E+00	1.1205E+00	ž	1.0421E+00	1.1119E+00	1.1732E+00
GAME	7.6401E-01	7.2466E-01	7.1582E-01	GAME	7.3239E-01	7-1604E-01	7.1269E-01
U	8.7278E+00	3.5519E+00	3.0485E+00	. U	1.00196+01	3.4748E+00	3.0555E+00
							•
SPĘCIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	1.9285E-02	.6.2019E-02	1.07536-01	E-	4.03636-02	1.0062E-01	1.4765E-01
À	9.6143E-01	8.7596E-01	7.8493E-01	· A	9.1927E-01	7.9876E-01	7.0470E-01
A+	1.9285E-02	6.2019E±02	1.0753E-01	A+ "	4.0363E-02	1.0062E-01	1.4765E-01
A++	2.0132E-10	2.4235E-08		A++	2.9845E-09	1.8451E-07	1.1479E-06
A+++	3.0230E-25	1.8065E-20	4.7744E-18	A+++	1.1342E-22	1.8767E-18	1.38332-16
A+++	1.4704E-48	1.5295E-39	5.5919E-35	A+++	7.6446E-44	9.2647E-36	3.1946E-32
AV	1.5050E-79	4.6850E-65	9.31156-58	AV	2.68986-72	5.5883E-59	2-8729E-53
AVI	0.	0.	3.8193E-87	IVA	0.	1.5526E-88	3.9983E-80
IIVA	ŏ.	ō.	0.	IIVA	0.	0.	0.
IIIVA	ő.	o.	ŏ.	IIIVA	0.	0.	o.
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	•		1				A contract of the contract of
P1 =	2.00E+03 N/SQ-M	. US1= 3.80E+0	3 M/SEC	P1 = 2	.00E+03 N/SQ-M	. US1= 4.20E+0	3 M/SEC
P1 =	2.00E+03 N/SQ-H	. US1= 3.80E+0	3 M/SEC	P1 = 2	-00E+03 N/SQ-H	. US1= +.20E+0	3 M/SEC
P1 =		•		14.			
P1 =	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	14.	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
, P	MOVING SHOCK 1.8495E+02	STANDING SHOCK 6-3115E+02	REFLECTED SHOCK 1.1298E+03		MOVING SHOCK: 2.3247E+02	STANDING SHOCK 9.4269E+02	REFLECTED SHOCK 1.5824E+03
P	MOVING SHOCK 1.8495E+02 3.6848E+01	STANDING SHOCK 6.3115E+02 4.4677E+01	REFLECTED SHOCK 1.1298E+03 4.9586E+01	P	MOVING SHDCK: 2.3247E+02 3.9858E+01	STANDING SHOCK 9.4269E+02 4.8576E+01	REFLECTED SHOCK 1.5824E+03 5.3198E+01
P T RHD	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00	STANDING SHOCK 6.3115E+02 4.4677E+01 1.2983E+01	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01	P T RHO	MOVING SHDCK: 2.3247E+02 3.9858E+01 5.5266E+00	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01
P	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01	STANDING SHOCK 6.3115E+02 4.4677E+01 1.2983E+01 7.0482E+01	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01	P T RHO	MOVING SHOCK: 2.3247E+02 3.985E+01 5.5266E+00 5.5653E+01	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02
P T RHD H	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8773E+00 4.5313E+01 5.3159E+00	STANDING SHOCK 6-3115E+02 4-4677E+01 1-2983E+01 7-0482E+01 5-9134E+00	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00	P T RHO	MOVING SHOCK 2.3247E+02 3.9858E+01 5.5266E+00 5.5653E+01 5.5201E+00	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00
P T RHD H A S	MOVING SHOCK 1-8495E+02 3-6848E+01 4-8723E+00 4-5313E+01 5-3159E+00 1-1966E+00	STANDING SHOCK 6-3115E+02 4-4677E+01 1-2983E+01 7-0482E+01 5-9134E+00 1-2073E+00	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00	P T RHO	MOVING SHOCK 2-3247E+02 3-9858E+01 5-526E+00 5-555E+01 5-5201E+00 1-2158E+00	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00	REFLECTED SHOCK 1.5824e+03 5.3198e+01 2.4751e+01 1.1542e+02 6.7463e+00 1.2623e+00
P T RHO H A S	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00	STANDING SHOCK 6-3115E+02 4-4677E+01 1.2983E+01 7-0482E+01 5-9134E+00 1.2073E+00 1.0881E+00	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00	P T RHO II A S Z	MOVING SHDCK: 2.3247E+02 3.9858E+01 5.5266E+00 5.5653E+01 5.5201E+00 1.2158E+00	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.1374E+00	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2623E+00 1.2018E+00
P T RHD H A S Z GAME	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4445E-01	STANDING SHOCK 6-3115E+02 4-4677E+01 1-2983E+01 7-0482E+01 5-9134E+00 1-2073E+00 1-0881E+00 7-1931E-01	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01	P T RHO H A S Z GAME	MOVING SHOCK 2.3247E+02 3.985E+01 5.5266E+00 5.553E+01 5.520IE+00 1.2158E+00 1.0553E+00 7.2442E-01	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.1374E+00 7.1397E-01	REFLECTED SHOCK 1.5824e+03 5.3198e+01 2.4751e+01 1.1542e+02 6.7463e+00 1.2018e+00 7.1187e-01
P T RHO H A S	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4445E-01 9.3702E+00	STANDING SHOCK 6-3115E+02 4-4677E+01 1.2983E+01 7.0482E+01 5-9134E+00 1.2073E+00 1.0881E+00 7.1931E+01 3-5062E+00	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00	P T RHO II A S Z	MOVING SHDCK: 2.3247E+02 3.9858E+01 5.5266E+00 5.5653E+01 5.5201E+00 1.2158E+00	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.1374E+00	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2623E+00 1.2018E+00
P T RHD H A S Z GAME	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4446E-01 9.3702E+00	STANDING SHOCK 6-3115E+02 4-4677E+01 1.2983E+01 7.0482E+01 5-9134E+00 1.2073E+00 1.0881E+00 7.1931E+01 3-5062E+00	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01 3.0476E+00	P T RHO H A S Z GAME	MOVING SHDCK 2.3247E+02 3.9858E+01 5.5266E+00 5.5653E+01 5.5201E+00 1.2158E+00 1.0553E+00 7.2442E-01 1.0668E+01	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.1374E+00 7.1397E-01	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2618E+00 1.2018E+00 7.1187E-01 3.0700E+00
P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4445E-01 9.3702E+00	STANDING SHOCK 6.3115E+02 4.467TE+01 1.2983E+01 7.0482E+01 5.9134E+00 1.2073E+00 1.2073E+00 1.35062E+00 7.1931E-01 3.5062E+00	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01 3.0476E+00	P T RHO H A S Z GAME U	MOVING SHOCK 2.3247E+02 3.9858E+01 5.5266E+00 5.553E+01 5.5201E+00 1.2158E+00 1.0553E+00 7.2442E-01 1.0668E+01	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.2331E+00 7.1397E-01 3.4402E+00	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2013E+00 7.1187E-01 3.0700E+00
P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4446E-01 9.3702E+00	STANDING SHOCK 6.3115E+02 4.4677E+01 1.2983E+01 7.0482E+01 5.9134E+00 1.2073E+00 1.0881E+00 7.1931E-01 3.5062E+00 - MOLE FRACTIONS 8.0977E-02	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01 3.0476E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHDCK 2.3247E+02 3.9858E+01 5.5266E+00 5.5653E+01 5.5201E+00 1.2158E+00 1.0553E+00 7.244E+01 1.0668E+01	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.1376E+01 3.4402E+00 - MOLE FRACTIONS 1.2080E-01	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2018E+00 7.1187E-01 3.0700E+00
PTRHDHASZZGAMEU	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4446E-01 9.3702E+00 S	STANDING SHOCK 6-3115E-02 4-4677E+01 1.2983E+01 7.0482E+01 5.9134E+00 1.2073E+00 1.0881E+00 7.1931E-01 3.5062E+00 - MOLE FRACTIONS 8.0977E-02 8.3805E-01	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01 3.0476E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 2.3247E+02 3.9858E+01 5.5266E+00 5.3653E+01 5.5201E+00 1.2158E+00 7.2442E-01 1.0668E+01	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 7.1397E-01 3.4402E+00 - MOLE FRACTIONS 1.2080E-01 7.5839E-01	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2623E+00 1.2018E+00 7.1187E-01 3.0700E+00
PT RHD H A S Z GAME U SPECIE	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4445E-01 9.3702E+00 S	STANDING SHOCK 6.3115E+02 4.4677E+01 1.2983E+01 7.0482E+01 5.9134E+00 1.2073E+00 1.2073E+00 3.5062E+00 - MOLE FRACTIONS 8.0977E-02 8.3805E-01 8.0977E-02	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E+01 3.0476E+00	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 2.3247E+02 3.985#E+01 5.5266E+00 5.553E+01 5.5201E+00 1.215#E+00 1.055#E+01 1.066#E+01	STANDING SHOCK 9.4269E-02 4.8576E-01 1.7062E-01 8.9643E-00 1.2331E-00 1.3376E-01 3.4402E-00 - MOLE FRACTIONS 1.2080E-01 7.5839E-01 1.2080E-01	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2018E+00 7.1187E-01 3.0700E+00 1.6790E-01 1.6790E-01
P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4446E-01 9.3702E+00 S 2.9280E-02 9.4144E-01 2.9280E-02 9.1124E-10	STANDING SHOCK 6.3115E+02 4.4677E+01 1.2983E+01 7.0482E+01 5.9134E+00 1.2073E+00 1.0881E+00 7.1931E-01 3.5062E+00 - MOLE FRACTIONS 8.0977E-02 8.3805E-01 8.0977E-02 7.2699E-08	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01 3.0476E+00 1.2744E-01 7.4512E-01 1.2744E-01 5.7616E-07	P T RHO H A S Z GAME U SPECIES E- A A+ A+	MOVING SHDCK 2.3247E+02 3.9858E+01 5.5266E+00 5.5653E+01 5.5201E+00 1.2158E+00 1.0553E+00 7.2442E-01 1.0668E+01	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.1376E+01 3.4402E+00 - MOLE FRACTIONS 1.2080E-01 7.5839E-01 1.2080E-01 4.1707E-07	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2018E+00 7.1187E-01 3.0700E+00 1.6790E-01 6.6419E-01 1.6790E-01 2.1525E-06
P T RHD H A S Z GAME U SPECIE E A A++ A+++	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.0302E+00 7.4446E-01 9.3702E+00 2.9280E-02 9.1144E-01 2.9280E-02 9.1124E-10 8.2589E-24	STANDING SHOCK 6.3115E+02 4.4677E+01 1.2983E+01 7.0482E+01 5.9134E+00 1.2073E+00 1.2073E+00 1.0881E+00 7.1931E-01 3.5062E+00 - MOLE FRACTIONS 8.0977E-02 8.3805E-01 8.0977E-02 7.2699E-08 2.2071E-19	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01 3.0476E+00	P T RHO H A S G GAME U SPECIES E- A A+ A++	MOVING SHOCK 2-3247E+02 3-9858E+01 5-5266E+00 5-553E+00 1-0553E+00 1-0553E+00 1-0553E+00 1-0668E+01 1-0668E+01 5-2447E-02 8-951E-01 5-2447E-02 8-0230E-09 1-0314E-21	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.2331E+00 7.1397E-01 3.4402E+00 - MOLE FRACTIONS 1.2080E-01 4.1707E-07 1.2362E-17	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2013E+00 7.1187E-01 3.0700E+00 1.6790E-01 6.6419E-01 2.1525E-06 6.0271E-16
P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4446E-01 9.3702E+00 S 2.9280E-02 9.1124E-10 8.2589E-24 6.2329E-46	STANDING SHOCK 6.3115E+02 4.4677E+01 1.2983E+01 7.0482E+01 5.9134E+00 1.2073E+00 1.2073E+00 3.5062E+00 - MOLE FRACTIONS 8.0977E-02 8.3805E-01 8.0977E-02 7.2699E-08 2.2071E-19 1.6591E-37	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01 3.0476E+00	PT RHO HAS Z GAME U SPECIES E-AA-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-A-	MOVING SHOCK 2.3247E+02 3.9858E+01 5.5266E+00 5.5653E+01 5.5201E+00 1.2158E+00 1.0553E+01 1.0668E+01 5.2447E-02 8.9511E-01 5.2447E-02 8.0230E-09 1.0314E-21 4.9166E-42	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.1374E+00 7.1397E-01 3.4402E+00 - MOLE FRACTIONS 1.2080E-01 7.5839E-01 1.2080E-01 4.1707E-07 1.2362E-17 3.1847E-34	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2018E+00 7.1187E-01 3.0700E+00 1.6790E-01 6.6419E-01 1.6790E-02 2.1525E-06 6.0271E-16 5.1095E-31
P T RHD H A S Z GAME U SPECIE A A + A + + A + + + A + + + A + + + A + + + A + + + A + A + + A	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4446E-01 9.3702E+00 S 2.9280E-02 9.1124E-10 8.2589E-24 6.2329E-46 1.9336E-75	STANDING SHOCK 6.3115E-02 4.4677E-01 1.2983E-01 7.0482E-01 5.9134E-00 1.2073E-00 1.0881E-00 7.1931E-01 3.5062E+00 - MOLE FRACTIONS 8.0977E-02 8.3805E-01 8.0977E-02 7.2699E-08 2.2071E-19 1.6591E-37 8.6128E-62	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01 3.0476E+00 1.2744E-01 7.4512E-01 1.2744E-01 5.7616E-07 2.7807E-17 1.5595E-33 2.2008E-55	P T RHO H A S Z GAME U SPECIES E-A A+A+++A+++-A	MOVING SHOCK 2.3247E+02 3.9858E+01 5.5266E+00 5.5653E+01 5.5201E+00 1.2158E+00 1.0553E+00 7.2442E-01 1.0668E+01 5.2447E-02 8.9511E-01 5.2447E-02 8.0230E-09 1.0314E-21 4.9166E-42 3.3919E-69	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.1376E+01 3.4402E+00 - MOLE FRACTIONS 1.2080E+01 7.5839E+01 1.2080E+01 4.1707E+07 1.2362E+17 3.1847E+34 1.6206E+56	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2018E+00 7.1187E-01 3.0700E+00 1.6790E-01 6.6419E-01 1.6790E-01 2.1525E-06 6.0271E-16 5.1095E-31 2.5279E-51
PT RHD H A S Z GAME U SPECIE	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4445E-01 9.3702E+00 \$	STANDING SHOCK 6.3115E+02 4.4677E+01 1.2983E+01 7.0482E+01 5.9134E+00 1.2073E+00 1.2073E+00 1.2073E+00 1.35062E+00	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01 3.0476E+00 1.2744E-01 7.4512E-01 1.2744E-01 5.7616E-07 2.7807E-17 1.5595E-33 2.2008E-55 2.9758E-83	P T RHO H A S Z GAME U SPECIES E-A A+A+++A+++A	MOVING SHOCK 2.3247E+02 3.9858E+01 5.5266E+00 5.5526E+00 1.2158E+00 1.0553E+00 1.0668E+01 5.2447E-02 8.9511E-01 5.2447E-02 8.9511E-01 5.2447E-02 8.931E-04 91.0314E-21 4.9166E-42 3.3919E-69 0.	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.3374E+00 7.1397E-01 3.4402E+00 - MOLE FRACTIONS 1.2080E-01 7.5839E-01 1.2080E-01 4.1707E-07 1.2362E-17 3.1847E-34 1.6206E-56 6.2018E-85	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2013E+00 7.1187E-01 3.0700E+00 1.6790E-01 6.6419E-01 2.1525E-06 6.0271E-16 5.1095E-31 2.5279E-51 3.0303E-77
P T RHD H A S Z GAME U SPECIE E A A + + + + + + + + + + + + + + + +	MOVING SHOCK 1.8495E+02 3.6848E+01 4.8723E+00 4.5313E+01 5.3159E+00 1.1966E+00 1.0302E+00 7.4446E-01 9.3702E+00 S 2.9280E-02 9.1124E-10 8.2589E-24 6.2329E-46 1.9336E-75	STANDING SHOCK 6.3115E-02 4.4677E-01 1.2983E-01 7.0482E-01 5.9134E-00 1.2073E-00 1.0881E-00 7.1931E-01 3.5062E+00 - MOLE FRACTIONS 8.0977E-02 8.3805E-01 8.0977E-02 7.2699E-08 2.2071E-19 1.6591E-37 8.6128E-62	REFLECTED SHOCK 1.1298E+03 4.9586E+01 1.9881E+01 9.3618E+01 6.3696E+00 1.2328E+00 1.1461E+00 7.1394E-01 3.0476E+00 1.2744E-01 7.4512E-01 1.2744E-01 5.7616E-07 2.7807E-17 1.5595E-33 2.2008E-55	P T RHO H A S Z GAME U SPECIES E-A A+A+++A+++-A	MOVING SHOCK 2.3247E+02 3.9858E+01 5.5266E+00 5.5653E+01 5.5201E+00 1.2158E+00 1.0553E+00 7.2442E-01 1.0668E+01 5.2447E-02 8.9511E-01 5.2447E-02 8.0230E-09 1.0314E-21 4.9166E-42 3.3919E-69	STANDING SHOCK 9.4269E+02 4.8576E+01 1.7062E+01 8.9643E+01 6.2807E+00 1.2331E+00 1.1376E+01 3.4402E+00 - MOLE FRACTIONS 1.2080E+01 7.5839E+01 1.2080E+01 4.1707E+07 1.2362E+17 3.1847E+34 1.6206E+56	REFLECTED SHOCK 1.5824E+03 5.3198E+01 2.4751E+01 1.1542E+02 6.7463E+00 1.2018E+00 7.1187E-01 3.0700E+00 1.6790E-01 6.6419E-01 1.6790E-01 2.1525E-06 6.0271E-16 5.1095E-31 2.5279E-51

P1 = 2	2.00E+03 N/SQ-	I, US1= 4.40E+0	3 M/SEC	P1 = 2.	.00E+03 N/SQ-M	' US1= 4.80E+0	3 M/SEC
			REFLECTED SHOCK				REFLECTED SHOCK
P	2.5822E+02	1.1296E+03	1.8510E+03	ρ .	3.1353E+02 ·		2.4727E+03
T	4.1175E+01	5.0390E+01		Τ .	4.3565E+01	5.3896E+01	5.6463E+01
RHO	5.86226+00	1.9262E+01	2.7342E+01	. RHO	6.5325E+00	2.3900E+01	3.2685E+01
н	6.1206E+01	9.99576+01	1.2720E+02	н ,		1.2209E+02	1.5233E+02
À	5.6278E+00	6.4648E+00	6.9395E+00	A	5.8484E+00	: 6.84035+00	7.3343E+00
S	1.2260E+00	1.2469E+00	1.2780E+00	S	1.2477E+00	1.2765E+00	1.3109 +00
Z	1.0698E+00	1.1638E+00	1.2316E+00	Z	1.1017E+00	1.2205E+00	1 • 294 0E + 00
GAME	7.1903E-01	7.1267E-01	7.1136E-01	GAME	7.1265E-01	7.1132E-01	7.1104E-01
Ü	1.1316E+01	3.4343E+00	3.0906E+00	U	1.2603E+01	3.4307E+00 '	3.1326E+00
SPEC IES		- MOLE FRACTIONS	·	SPECIES		- MOLE FRACTIONS	
E	6.5233E-02	1.4076E-01	1.8803E-01	· E-	9.2292E-02		2.27228-01
A	8.6953E-01	7.1848E-01	6.2395E-01	A	8.1542E-01		5.4557E-01
A+ ,	6.5233E-02	1.4076E-01	1.8802E-01	A+ -	9.2292E-02		2.2720E-01
A++ ·	1.8604E-08	. 8.4897E-07	3.8415E-06	A++ A+++			1.0874E-05
A+++	6.7157E-21	6.4577E-17	2.3512E-15	A+++	1.5045E-19		2.7581E-14
A++++ .	1.5696E-40	7.0981E-33	6.5855E-30	A++++	5.1036E-38	; 4 1.6347E-30	6.7454E-28
AV '	8.4079E-67		1.5258E-49	AV :	8.8367E-63	1.4695E-50	2.61 52 E-46
	0.	8.1333E-82	1.2173E-74	AV1	0.	3.05418-76	6.9169E-70 ·
AVII'	0.	. 0.	0.	AVII	0.	o.	0.
IIIVA	0.	0.	0.	IIIVA).	J.	0.
			•		•		
P1 = 2	-P2\N E0+300.	US1= 4-60E+0	3 M/SEC	P1 = 2.	.00E+03 N/SQ-M	US1= 5.00E+0	3 M/SEC .
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ -	2.8525E+02	1.3387E+03	2.1460E+03	P		1.8256E+03	2.8291E+03
Ť	4.2404E+01	5.21596+31	5.67 J7E+01	Ť	4.46716+01	5.5594E+01	6.0226E+01
RHO	6.1984E+00	2.1538E+01	2.9986E+01	RHO		2.6265E+01	3.5401E+01
4	6.7009E+01	1.1076E+02	1.3940E+02		7.9370E+01	1.33846+32	1.6582E+02
A	5.7374E+00	6.6514E+00	7.1338E+00	Ä	5.96065+00	7.0302E+00	7-53915+00
ŝ	1.2367E+00	1.26148+00	1.2940E+00	Š		1.2921E+00	7.5391E+00 ÷ 1.3283E+00
ž	1.0853E+00	1.1916E+00			1.11905+00		1.3269E+00
GAME	7.15296-01	7.1183E-01	7.1109E-01	GAME		7.1105E-01	7.1123E-01
U	· 1.1961E+01	3.4361E+03	3.0978E+00	U		3.4533E+00	3.171 9E+00
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	7.8557E-02	1.6078E-01	2.0765E-01	E-		2.0017E-01	2.4638E-01
Α -	8.4289E-01	6.7844E-01	5.8471E-01	Ą	7.6732E-31		5.0725E-01 A
Α+ .	7.8557E-02	1.6078E-01	2.0763E-01	A+ +	1.06346-01		2.4635E-01
A++	3.8706E-C8	1.6159E-06	6.5453E-06	A++ -	1.3323E-07		1.7593E-05
A+++ .	3.4386E-20	2.9169E-16	8.2758E-15	A+++	5.6167E-19	4.1689E-15	8.6656E-14
A++++	3.0150E-39	1.2306E-31	7.0058E-29	A++++	5.6985E-37 .		5.7941E-27
AV	5.1142E-65	2.4202E-52	6.7925E-48	AV	3.4246E-61		8.3139E-45
IVA	0.	9.0411E-79	3.1504F-72	AVI	٠.	1.2656E-73	1.1224E-67
LIVA	0.	0.	0.	11VA	0.	o.	0.
AVIII	. 0.	o.	0.	IIIVA	J.	o.	0.
							•

P1 =	2.00E+03 N/SQ-M	US1= 5.20E+03	3 M/SEC .	P1 = 2	.00E+03 N/SQ-M	. US1 = 5.60E+0	3 M/SEC
	, , , , , , , , , , , , , , , , , , ,	•		•			
					MOUTHE SUDEN	STANISTIC SUGGY	. 055, 50 555
	MOVING SHOCK	STANDING SHOCK		ρ.	MOVING SHOCK 4.3915E+02	STANDING SHOCK	
<u> </u>	3.7406E+02	2.1078E+03	3.2211E+03	ī			4.0832E+03
1	4.5736E+01	5.7298E+01	6.2025E+01		4.7758E+01	6.0643E+01	6.5680E+01
RHO	7.1920E+00	2.8712E+01	3.8157E+01	RHD .	7.8193E+00	3.3443E+01	4.3443E+01
H .	8.5941E+01	1.46215+02	1.8000E+02	н	9.9803E+01	1.7206E+02	2.0976E+02
A .	6.0745E+00	7.2247E+00	7.7510E+00	Α .	6.3056E+00	7.6179E+00	8.18985+00
S	1.2709E+00	1.3083E+00	1.3463E+00	Ş	1.2956E+30	1.3419E+00	1.3833E+00
2	1.1372E+00	1.2812E+00	1.3610E+00	2	1.1760E+00	1.3449E+00	1.4310E+00
GAME	7.0946E-01	7.1100E-01	7.1168E-01	GAME	7.0796E-01	7.1152E-01	7.1362E-01
U.	1.3887E+01	3.4718E+00	3.2165E+00		1.5145E+01	3.5502E+00	3.3181E+00
*		•	-				
SPECIE	S	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	1-2065E-01	2.1950E-01	2.6526E-01	E- ·	1.4964E-01	2.5646E-01	3.0119E-01
Ā	7.5871E-01	5.6100E-01	4.6950E-01	A	7.0072E-01 -	4.8709E-01	3.9768E-01
A+	1.2065E-01	2.1949E-01	2.6521E-01	A+	1.4964E-01	· 2.5642E-01	3.0106E-01
A++	2-2742E-07	8.3276E-06	2.8004E-05	A++.	3.8625E-07	2.1004E-05	6.7324E-05
A+++	1.8903E-18	1.3931E-14	2.6287E-13	A+++	1.6413E-17	1.2587E-13	2.1500E-12
A++++	5.4944E-36	1.7571E-28	4.6455E-26	A++++	3.1207E-34	1.0990E-26	2.3715E-24
AV	1.3906E-59	2.7595E-47	2-3538E-43	AV	9.5020E-57	2.1509E-44	1.2893E-40
AVI'	8.7918E-90	2.0950E-71	1.5217E-65	AVI	1.7409E-85	3.9259E-67	1.5802E-61
AVII	0.	0.	0.	IIVA	j.	0.	9.1582E-90
IIIVA	0.	9.	0.	IIIVA	0.	0.	0.
		•					
		•					
		•		•			
P1 =	2.00E+03 N/SQ-M	. US1= 5.40E+0	3 M/SEC	P1 = 2	2.00E+03 N/SQ-M	, US1= 5.80E+0	3 M/SEC
P1 =	2.00E+03 N/SQ-M	• US1= 5.40E+0	3 M/SEC	P1 = 2	2.00E+03 N/SQ-M	. US1= 5.80E+0	3 M/SEC
P1 =				P1 = 2	.00E+03 N/SQ-M		
P1 =	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	P1 = 2			
P1 =	MOVING SHOCK 4.0599E+02	STANDING SHOCK 2.4055E+03	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 4.0599E+02 4.6761E+01	STANDING SHOCK 2.4055E+03 5.8967E+01	REFLECTED SHOCK	P	MOVING SHOCK 4.7352E+02	STANDING SHOCK 3.0730E+03	REFLECTED SHOCK 4.5609E+03
P T	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+J0	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01	P T	MOVING SHOCK 4.7352E+02 4.8728E+01	STANDING SHOCK 3.0730E+03 6.2333E+01	REFLECTED SHOCK 4.5609E+03 6.7592E+01
P T RHO	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+JO 9.2746E+01	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02	P T RHD	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00	STANDING SHOCK 3-0730E+03 6-2333E+01 3-5778E+01	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02
P T RHJ H A	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+03	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00	REFLECTED SHOCK 3.6365E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00	P T RHJ H	MUVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.3711E+02	STANDING SHOCK 3.0730E+03 6.2333E+01 3.5778E+01 1.8571E+02	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01
P T RHJ H A	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00	STANDING SHOCK 2-4055E+03 5-8967E+01 3-1077E+01 1-5888E+02 7-4193E+00 1-3249E+00	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3645E+00	P T RHO H	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.3711E+02 6.4229E+00 1.3084E+00	STANDING SHOCK 3.0730E+03 6.2333E+01 3.5778E+01 1.8571E+02 7.8209E+00	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00
P T RHO H A S	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+03 1.2831E+00 1.1562E+00	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3249E+00 1.3127E+00	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3645E+00 1.3956E+00	P T RHO H A S	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.0711E+02 6.4229E+00 1.3084E+00 1.1964E+00	STANDING SHOCK 3.0730E+03 6.2333E+01 3.5778E+01 1.6571E+02 7.8209E+00 1.3593E+00 1.3779E+00	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4072E+00
P T RHD H A S Z GAME	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.0855E-01	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3249E+00 1.3127E+00 7.1115E-01	REFLECTED SHOCK 3.6364E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9465E+00 1.3645E+00 1.3956E+00 7.1245E+01	P T RHJ H A S Z GAME	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.0711E+02 6.4229E+00 1.3084E+00 1.1964E+00 7.0761E-01	STANDING SHOCK 3.0730E+03 6.233E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 1.3779E+00 7.1216E-01	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 1.4072E+00 7.1530E-01
P T RHO H A S	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+03 1.2831E+00 1.1562E+00	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3249E+00 1.3127E+00	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3645E+00 1.3956E+00	P T RHO H A S	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.0711E+02 6.4229E+00 1.3084E+00 1.1964E+00	STANDING SHOCK 3.0730E+03 6.2333E+01 3.5778E+01 1.6571E+02 7.8209E+00 1.3593E+00 1.3779E+00	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4072E+00
P T RHJ H A S Z GAME U	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.0855E-01 1.4517E+01	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3249E+00 1.3127E+00 7.1115E-01 3.5128E+00	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3645E+00 1.3956E+00 7.1245E-01 3.2640E+00	P T RHJ H A S Z GAME U	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.3711E+02 6.4229E+00 1.3084E+00 1.1964E+00 7.0761E-01	STANDING SHOCK 3.0730E+03 6.2333E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 1.3779E+00 7.1216E-01 3.5929E+00	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 1.4072E+00 3.3773E+00
P T RHD H A S Z GAME	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.0855E-01 1.4517E+01	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3249E+00 1.3127E+00 7.1115E-01	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3645E+00 1.3956E+00 7.1245E-01 3.2640E+00	P T RHJ H A S Z GAME	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.3711E+02 6.4229E+00 1.3084E+00 1.1964E+00 7.0761E-01	STANDING SHOCK 3.0730E+03 6.233E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 1.3779E+00 7.1216E-01	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 1.4072E+00 3.3773E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.0855E-01 1.4517E+01	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3249E+00 1.3127E+00 7.1115E-01 3.5128E+00 - MOLE FRACTIONS 2.3819E-01	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3645E+00 1.3956E+00 7.1245E-01 3.2640E+00	P T RHD H A S Z GAME U SPECIES	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.0711E+02 6.4229E+00 1.3084E+00 1.1964E+00 1.770E+01	STANDING SHOCK 3.0730E+03 6.2333E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 1.3779E+00 7.1216E-01 3.5929E+00	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 1.4072E+00 7.1530E-01 3.3773E+00
P T RHJ H A S Z GAME U SPECIE	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.0855E-01 1.4517E+01	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3127E+00 7.1115E-01 3.5128E+00 - MOLE FRACTIONS 2.3819E-01	REFLECTED SHOCK 3.6366E+03 6.3829F+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3645E+00 1.3956E+00 7.1245E-01 3.2640E+00 2.8346E-01 4.3313E-01	P T RHD H A S Z GAME U SPECIES	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.3711E+02 6.4229E+00 1.3084E+00 7.0761E-01 1.5770E+01	STANDING SMOCK 3.0730E+03 6.2333E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 7.1216E-01 3.5929E+00	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 1.4072E+00 7.1530E-01 3.3773E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.0855E-01 1.4517E+01	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3249E+00 1.3127E+00 7.1115E-01 3.5128E+00 - MOLE FRACTIONS 2.3819E-01	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3645E+00 1.3956E+00 7.1245E-01 3.2640E+00	P T RHD H A S GAME U SPECIES E- A	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.0711E+02 6.4229E+00 1.3084E+00 1.1964E+00 7.0761E-01 1.5770E+01	STANDING SHOCK 3.0730E+03 6.233E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 1.3779E+00 7.1216E-01 3.5929E+00	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 1.4072E+00 7.1530E-01 3.3773E+00
P T RHJ H A S Z GAME U SPECIE	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.0855E-01 1.4517E+01	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3127E+00 7.1115E-01 3.5128E+00 - MOLE FRACTIONS 2.3819E-01	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3956E+00 7.1245E-01 3.2640E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.3711E+02 6.4229E+00 1.3084E+00 1.1964E+00 7.0761E-01 1.5770E+01	STANDING SHOCK 3.0730E+03 6.2333E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 1.3779E+00 7.1216E-01 3.5929E+00	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 1.4072E+00 7.1530E-01 3.3773E+00 3.1843E-01 3.6324E-01 1.0322E-01
P T RHJ H A S Z GAME U SPECIE E+ A +	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.0855E-01 1.4517E+01 1.3508E-01 1.3508E-01 1.3508E-01 1.3508E-01	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3249E+00 1.3127E+00 7.1115E-01 3.5128E+00 - MOLE FRACTIONS 2.3819E-01 2.3817E-01 2.3817E-01	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9655E+00 1.3645E+00 1.3956E+00 7.1245E-01 3.2640E+00	P T RHO H A S Z GAME U SPECIES E - A A + A + + A + + + A + + + + + + + +	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.0711E+02 6.4229E+00 1.3084E+00 1.964E+00 7.0761E-01 1.5770E+01 6.7162E-01 1.6419E-01 4.3302E-17 4.3302E-17	STANDING SHOCK 3.0730E+03 6.233E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 7.1216E-01 3.5929E+00 - MOLE FRACTIONS 2.7426E-01 2.7420E-01 3.2406E-03 3.2502E-03	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 1.4072E+00 7.1530E-01 3.3773E+00 3.1843E-01 3.6324E-01 3.1822E-04 6.0067E-12
P T RHJ H A S Z GAME U SPECIE E+ A + A++	#OVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.085E-01 1.4517E+01 *** 1.3508E-01 1.3508E-01 3.7154E-01	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3127E+00 7.1115E-01 3.5128E+00 - MOLE FRACTIONS 2.3819E-01 2.3817E-01 2.3817E-01 1.3374E-05	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3956E+00 7.1245E-01 3.2640E+00	P T RHD H A S GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.0711E+02 6.4229E+00 1.3084E+00 1.1964E+00 7.0761E-01 1.5770E+01 	STANDING SHOCK 3.0730E+03 6.233E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 1.3779E+00 7.1216E-01 3.5929E+00 - MOLE FRACTIONS 2.7426E-01 4.5151E-01 2.7420E-01 3.2404E-05 3.5523E-13 7.7560E-26	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 1.4072E+00 3.3773E+00 3.1843E-01 3.6324E-01 1.0322E-04 6.0067E-12 1.6126E-23
P T RHJ H A S Z GAME U SPECIE E-A A A A A A A A A A A A A A A A A A	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.0855E-01 1.4517E+01 85 	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3127E+00 7.1115E-01 3.5128E+00 - MOLE FRACTIONS 2.3819E-01 2.3817E-01 1.3374E-05 4.3012E-10	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9655E+00 1.3645E+00 1.3956E+00 7.1245E-01 3.2640E+00	P T RHO H A S Z GAME U SPECIES E - A A + A + + A + + + A + + + + + + + +	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.3711E+02 6.4229E+00 1.3084E+00 1.1964E+00 7.0761E-01 1.5770E+01 1.6419E-01 6.7162E-01 1.6419E-01 6.43661E-07 4.3302E-17 1.8527E-33 1.4356E-55	STANDING SHOCK 3.0730E+03 6.2333E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3779E+00 7.1216E-01 3.5929E+00 - MOLE FRACTIONS 2.7426E-01 4.5151E-01 2.7420E-03 3.2404E-05 3.5523E-13 7.7560E-26 5.1198E-43	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 7.1530E-01 3.3773E+00 3.1843E-01 3.6324E-01 3.182E-01 1.0322E-04 6.0067E-12 1.6126E-23 2.7666E-39
P T RHJ H A S Z GAME U SPECIE E- A A+ A++ A+++	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.0855E-01 1.4517E+01 1.3508E-01 1.3508E-01 3.7154E-07 5.8093E-18 4.5830E-38	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3249E+00 1.3127E+00 7.1115E-01 3.5128E+00 - MOLE FRACTIONS 2.3819E-01 2.3817E-01 1.3374E-05 4.3012E-14 1.4789E-27	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3956+00 7.1245E-01 3.2640E+00 2.8346E-01 4.3313E-01 2.8337E-01 4.3642E-05 7.6002E-13 3.3931E-25	P T RHD H A S GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.0711E+02 6.4229E+00 1.3084E+00 1.1964E+00 7.0761E-01 1.5770E+01 	STANDING SHOCK 3.0730E+03 6.233E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 1.3779E+00 7.1216E-01 3.5929E+00 - MOLE FRACTIONS 2.7426E-01 4.5151E-01 2.7420E-01 3.2404E-05 3.5523E-13 7.7560E-26	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 7.1530E-01 3.3773E+00 3.1843E-01 3.6324E-01 3.182E-01 1.0322E-04 6.0067E-12 1.6126E-23 2.7666E-39
P T RHJ H A S Z GAME U SPECIE E-A A+A A+A A+A A+A A+A A A A A A A A A A	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2831E+00 1.1562E+00 7.085E-01 1.4517E+01 1.3508E-01 1.3508E-01 1.3508E-01 1.3508E-01 1.3508E-01 4.3508E-01 4.3508E-03 4.6803E-18 4.6803E-35 4.6263E-35	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3127E+00 7.1115E-01 3.5128E+00 - MOLE FRACTIONS 2.3819E-01 2.3817E-01 2.3817E-01 1.3374E-05 4.3012E-14 1.4789E-27 8.8889E-46	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3956E+00 7.1245E-01 3.2640E+00	P T RHO H A S Z GAME U SPECIES E- A A+++ A++++ A++++ AV	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.3711E+02 6.4229E+00 1.3084E+00 1.1964E+00 7.0761E-01 1.5770E+01 1.6419E-01 6.7162E-01 1.6419E-01 6.43661E-07 4.3302E-17 1.8527E-33 1.4356E-55	STANDING SHOCK 3.0730E+03 6.2333E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3779E+00 7.1216E-01 3.5929E+00 - MOLE FRACTIONS 2.7426E-01 4.5151E-01 2.7420E-03 3.2404E-05 3.5523E-13 7.7560E-26 5.1198E-43	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 7.1530E-01 3.3773E+00 3.1843E-01 3.6324E-01 3.182E-01 1.0322E-04 6.0067E-12 1.6126E-23 2.7666E-39
P T RHJ H A S Z GAME U SPECIE E-A A+A+A+A+A+A+AVI	MOVING SHOCK 4.0599E+02 4.6761E+01 7.5096E+00 9.2746E+01 6.1892E+00 1.2631E+00 1.1562E+00 7.0855E-01 1.4517E+01 1.3508E-01 1.3508E-01 3.7154E-07 5.8093E-18 4.5830E-35 4.6263E-58 2.2893E-87	STANDING SHOCK 2.4055E+03 5.8967E+01 3.1077E+01 1.5888E+02 7.4193E+00 1.3249E+00 1.3127E+00 3.5128E+00 - MOLE FRACTIONS 2.3819E-01 2.3817E-01 1.3374E-05 4.3012E-14 1.4789E-27 8.8889E-46 4.0849E-69	REFLECTED SHOCK 3.6368E+03 6.3829E+01 4.0827E+01 1.9459E+02 7.9665E+00 1.3956E+00 7.1245E+01 3.2640E+00 2.8346F+01 4.3313E+01 2.8337E+01 4.3642E+05 7.6002E+13 3.3931E+25 5.7172E+42 1.6408E+63	P T RHO H A S Z GAME U SPECIES E- A A + A + + A + + + A Y A Y I	MOVING SHOCK 4.7352E+02 4.8728E+01 8.1221E+00 1.0711E+02 6.4229E+00 1.3084E+00 1.1964E+01 1.5770E+01 6.7162E-01 1.6419E-01 6.7162E-01 1.6414E-01 4.302E-17 1.8527E-33 1.4356E-55 3.3080E-84	STANDING SHOCK 3.0730E+03 6.233E+01 3.5778E+01 1.8571E+02 7.8209E+00 1.3593E+00 1.3779E+00 7.1216E-01 3.5929E+00 - MOLE FRACTIONS 2.7426E-01 4.5151E-01 2.7420E-01 3.2404E-05 3.5523E-13 7.7560E-26 5.1198E-43 4.5736E-65	REFLECTED SHOCK 4.5609E+03 6.7592E+01 4.5990E+01 2.2551E+02 8.4224E+00 1.4024E+00 1.4672E+00 7.1530E-01 3.3773E+00 3.1843E-01 3.6324E-01 3.1822E-01 1.0322E-04 6.0067E-12 1.6126E-23 2.7666E-39 1.4032E-59

p, - 2 kN/ m²

P1 =	2.00E+03 N/SQ-M	. US1= 6.00E+0	D3 M/SEC		P1 .=	2.00E+03 N/SQ-M	. US1= 6.40E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	5.091UE+02	3.4408E+03	5.0695E+03		ρ	5.8389E+02	4.2481E+03	6.1813E+03
Ŧ	4.9681E+01	6.4048E+01	6.9587E+01		T	5.1546E+01	6.7612E+01	7.3938E+01
RHO	8.4154E+00	3.8058E+01	4.8433E+01		RHD	8.97375+00	4.2428E+01	5.2901E+01
н	1.1467E+02	1.9982E+02	2.4187E+02		H	1.3056E+02	2.2951E+02	2. 7646E+02
``A ·	6.5421E+00	8.3294E+00	8.6667E+00		7 .	6.78565+00	8.4683E+00	9.20265+00
Š	1.3215F+00	1.3771E+00	1.4218E+00		ŝ	1.3488E+00	1.4136E+00	1.4618E+00
Ž	1.2177E+00	1.4116E+00	1.5042E+00		· .	1.26238+90	1.4808E+00	1.5803E+00
GAME	7.0746E-01	7.1311E-01	7.1761E-01		GAME	7.0764E-01	7.1624E-01	7. 2478E-01
U			3.4434E+00		U			
	1.6392E+01	3.6408E+00	3.44346400		U	1.7630E+01	3.7328E+00	3.5993E+00
SPECIE	s	- MOLE FRACTIONS	5		SPECIE	s	- MOLE FRACTIONS	
E-	1.7878E-01	2.9157E-01	3.3518E-01		E '	2.0781E-01	3.2471E-01	3.6722E-01
A	6.4245E-01	4.1691E-01	3.2980E-01		A A	5.8439E-01	3.5069E-01	2.6593E-01
Ä+	1.7877E-01	2.9147E-01	3.3486E-01		Ã+	2.0780E-01	3.2449E-01	3.6647E-01
A++	1.3391E-06	4.9296E-05	1.5804E-04		A++	2.81116-06	1.1143E-04	3.7650E-04
A+++	1.09235-16	9.6964E-13	1.6752E-11		A+++	6.0670E-16	6.8812E-12	1.36256-10
A++++	1.0626E-32	5.0661E-25	1.0868E-22		A++++	2.6193E-31	1.9674E-23	5.3112E-21
AV	2.6538E-54	1.0298E-41	5.7956E-38		AV.	4.6167E-52	3.6090E-39	2.8562E-35
AVI	6.4485E-82		1.1797E-57		AVÍ	1.33818-78	1.9665E-59	1.0146E-53
IIVA	0.44036-82	3.7480E-92	3.1879E-84		AVII	0.	8.7724E-87	1.45396-78
IIIVA	o. ·	0.	0.		AVIII	2.	0.11246-01	
*****	0.	٠.	٠.		44111	7.	5.	. 0.
•	•					•		
P1 = 1	2.00E+03 N/SQ-N	, USI= 6.20E+0	O3 M/SEC		P1 =	2.00E+03 N/Su-M	. US1= 6.60E+0	3 M/SEC
•			•			•	•	
• •	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	5.4590E+02	3.8355E+03	5.6096E+03		P	6.2309E+02	4.6815E+03	6.7853E+03
T	5.0619E+01	6.5809E+01	7.1690E+01		T	5.2464E+01	6.9482E+01	7.6360E+01
RHD	8.6995E+00	4.0307E+01	5.0748E+01		RHO	9.23785+00	4.4435E+01	5.4877E+01
Н	1.22495+02	2-1446E+02	2.5885E+02		н	1.3888E+02	2.4503E+02	2.9474E+02
<u> </u>	6.6629E+00	8.2452E+00	8.9255E+00		Ä	6.9102E+00	8.7011E+00	9.5005E+00
ŝ	1.3350E+00	1.3952E+00	1.441 7E+00		Š	1.3629E+00	1.4322E+00	1.4821E+00
ž ·	1.2397E+00	1.4459E+00	1.5419E+00		ž	1.2856E+30	1.5163E+00	1.6192E+00
GAME	7.0748E-01	7.1444E-01	7.2070E-01		GAME	7.0794E-01	7.1862E-01	7.2999E-01
Ü	1.7012E+01	3.6754E+00	3.5169E+00		Ü	1.8245E+01	3.7974E+00	3.6920E+00
SPECIES	 5 i	- MOLE FRACTIONS			SPECIE	;	- MOLE FRACTIONS	
SPECIE.					SPECIE		- HOLE PRACTIONS	,
E-	1.9333E-01	3.0841E-01	3.5143E-01	4.	E-	2.2218E-01	3.4049E-01	3.8243E-01
Α	6.1335E-01	3.8325E-01	2.9738E-01	•	A	5.55648+01	3.1919E-01	2.3574E-01
A+ .	1.9332E-01	3.0826E-01	3.5095E-01	•	A+	2.2218E-01	3.4016E-01	3.8124E-01
A++	1.9580E-06	7.4380E-05	2.4280E-04		A++	3.9728E-06	1.6654E-04	5.9098E-04
A+++	2.6291E-16	2.6008E-12	4.7211E-11		A+++	1.3494E-15	1.8118E-11	4.0581E-10
A++++	5.5273E-32	3.1850E-24	7.4552E-22		A++++	1.1418E-30	1.19376-22	3.9920E-20
AV	3.8685E-53	1.9148E-40	1.2549E-36		AV	4.5586E-51	6.4529E-38	7.0469E-34
IVA	3.6429E-80	2.4636E-61	1.0655E-55		IVA	2.9369E-77	1.3477E-57	1.0833E-51
' IIVA	·).	1.0819E-89	2.1322E-81		AVEI	0.	3.9138E-84	1.1667E-75
· IIIVA	. 0.	0.	0.		LIIVA	0.	0.	0.

P1 = 2	.00E+03 N/SQ-M,	US1= 6.80E+03 M/SEC	P1 = 2.00E+03 N/SQ-M, US1= 7.20E+03 M/SEC
	•		
	HOUSEC CHOCK	STANDING SHOCK, REFLECTED SHO	CK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
	6.6384E+02	5.1424E+03 7.4319E+0	
ŕ	5.33805+01	7.1459E+01 7.9046E+0	
RHD .		4.6354E+01 5.6672E+0	
жир .	9.4955E+00		
	1.4746E+02	2.6114E+02 3.1390E+0	
A	7.0372E+00	8.9480E+00 9.8278E+0	
2, ·	1.3772E+00	1.4512E+00 1.5028E+0	
Ζ	1.3097E+00	1.5525E+00 1.6590E+0	
GAME	7.08375-01	7.2173E-01 7.3652E-0	
U	1.8868E+01	3.8697E+00 3.7974E+0	0 y 2.0086E+01 4.0435E+00 4.0392E+00
SPEĆÎIES		MULE FRACTIONS	
E- '	2.3645E+01	3.55865-01 3.97235-	01 E- 2.6446E-01 3.8470E-01 4.2448E-01
Α	5.2710E-01	2.8853E-01 2.0650E-	
A+	2.3644E-01	3.5536E-01 3.9532E-	
A++		2.5021E-04 9.5088E-	
. , , .	5.5454E-06		**
A+++	2.9272E-15	4.8336E-11 1.2855E-	
A++++	4.7849E-30	7.3565E-22 3.3404E-	
AV.	4.3391E-50	1.1601E-36 2.0411E-	
AVI	6.6333E-76	8.9457E-56 1.4376E-	
AVII)• \	1.5241E-81 1.2356E-	
AVIII).	0.	AVIII 0. 0. 7.9525E-92
•	•	•	•
		•	
			\cdot
P1 = 2	.00E+03 N/SQ-M,	US1= 7.00E+03 M/SEC	P1 = 2.00E+03 N/SQ-M, US1= 7.40E+03 M/SEC
P1 = 2	.00E+03 N/SQ-M,	US1= 7.00E+03 M/SEC	P1 = 2.00E+03 N/SQ-M, US1= 7.40E+03 M/SEC
P1 = 2	,	US1= 7.00E+03 M/SEC	
P1 = 2	MOVING SHOCK	STANDING SHOCK REFLECTED SHO	CK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P	MOVING SHOCK : 7.0525E+02	STANDING SHOCK REFLECTED SHO 5.6104E+03 8.1000E+0	CK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 3 P 7-9165E+02 6-5955E+03 9-5246E+03
P1 = 2 P T RHO	MOVING SHOCK 7.0525E+02 5.4291E+01	STANDING SHOCK REFLECTED SHO 5.6104E+03 8.1000E+0 7.3515E+01 8.2004E+0	CK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 3 P 7-9165E+02 6-5955E+03 9-5246E+03
P T RHO	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00	STANDING SHOCK REFLECTED SHO 5.6104E+03 8.1000E+6 7.3515E+01 8.2004E+6 4.8040E+01 5.8146E+6	CK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 3 P 7-9165E+02 6.5955E+03 9.5246E+03 1 T 5.6118E+01, 7.8039E+01 8.8994E+01 1 RHO 1.0183E+01 5.0884E+01 6.0325E+01
P T	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02	STANDING SHOCK REFLECTED SHC 5.6104E+03 8.1000E+0 7.3515E+01 8.2004E+0 4.8040E+01 5.8146E+0 2.7750E+02 3.3369E+0	CK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 3 P 7.9165E+02 6.5955E+03 9.5246E+03 1 T 5.6118E+01, 7.8039E+01 8.8994E+01 1 RHO 1.0183E+01 5.0884E+01 6.0325E+01 2 H 1.7468E+02 3.1153E+02 3.7516E+02
P T RHO H	MOVING SHOCK 7.9525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00	STANDING SHOCK REFLECTED SHO 5.6104E+03 8.1000E+0 7.3515E+01 8.200E+0 4.8040E+01 5.8146E+0 2.7750E+02 3.3369E+0 9.2057E+00 1.0181E+0	CK MDVING SHOCK STANDING SHOCK REFLECTED SHOCK 3 P 7.9165E+02 6.5955E+03 9.5246E+03 1 T 5.61118E+01, 7.8039E+01 8.8904E+01 1 RHO 1.0183E+01 5.0884E+01 6.0325E+01 2 H 1.7468E+02 3.1153E+02 3.7516E+02 1 A 7.4315E+00 9.7692E+00 1.0934E+01
P T RHO H A S	MOVING SHOCK 7.0525E+02 5.429IE+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00	\$\text{STANDING SHOCK} \text{S.6104E+03} & \text{8.1000E+0} \\ 7.3515E+01 & \text{8.2004E+0} \\ 4.8040E+01 & \text{5.8146E+0} \\ 2.7750E+02 & \text{3.3369E+0} \\ 9.2057E+00 & \text{1.0181E+0} \\ 1.4701E+00 & \text{1.5237E+0} \end{array}	CK MDVING SHOCK STANDING SHOCK REFLECTED SHOCK 3 P 7-9165E+02 6.5955E+03 9.5246E+03 1 T 5.6118E+01, 7.8039E+01 8.8904E+01 1 RHO 1.0183E+01 5.0884E+01 6.0325E+01 2 H 1.7468E+02 3.1153E+02 3.7516E+02 1 A 7.4315E+00 9.7692E+00 1.0934E+01 0 S 1.4218E+00 1.5079E+00 1.5651E+00
P T RHO H A S Z	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00	STANDING SHOCK REFLECTED SHO 5.6104E+03 8.1000E+0 7.3515E+01 8.2004E+0 4.8040E+01 5.8146E+0 2.7750E+02 3.3369E+0 9.2057E+00 1.0181E+0 1.5237E+0 1.5286E+00 1.698E+0	CK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 3 P 7.9165E+02 6.5955E+03 9.5246E+03 1 T 5.6118E+01, 7.8039E+01 8.8994E+01 1 RHO 1.0183E+01 5.088E+01 6.0325E+01 2 H 1.7468E+02 3.1153E+02 3.7516E+02 1 A 7.4315E+00 9.7692E+00 1.0934E+01 0 S 1.4218E+00 1.5079E+00 1.55651E+00 0 Z 1.3854E+00 1.6609E+00 1.7759E+00
P T RHO H A S	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3343E+00 7.0891E-01	STANDING SHOCK	CK
P T RHO H A S Z	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00	STANDING SHOCK REFLECTED SHO 5.6104E+03 8.1000E+0 7.3515E+01 8.2004E+0 4.8040E+01 5.8146E+0 2.7750E+02 3.3369E+0 9.2057E+00 1.0181E+0 1.5237E+0 1.5286E+00 1.698E+0	CK
P T RHO H A S Z	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3343E+00 7.0891E-01	STANDING SHOCK	CK
P T RHO H A S Z GAME U	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3343E+00 7.0891E-01 1.9474E+01	STANDING SHOCK	CK
P T RHO H A S Z GAME U	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3343E+00 7.0891E-01 1.9474E+01	STANDING SHOCK	CK
P T RHO H A S Z GAME U	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3343E+00 1.0891E-01 1.9474E+01	STANDING SHOCK 5.6104E+03 7.3515E+01 8.2004E+0 4.8040E+01 5.8146E+0 2.7750E+02 3.3369E+0 1.0181E+0 1.5886E+00 1.6988E+0 7.2564E-01 3.9515E+00 3.9272E+0 MOLE FRACTIONS 3.7052E-01 4.1133E-	CK
P T RHO H A S Z GAME U	MOVING SHOCK 7.9525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 7.0891E-01 1.9474E+01	STANDING SHOCK 5.6104E+03 7.3515E+01 8.2004E+0 4.8040E+01 5.8146E+0 2.7750E+02 9.2057E+00 1.4701E+00 1.5886E+00 1.698E+4 7.2564E-J1 3.9272E+0 MOLE FRACTIONS 3.7052E-01 4.1133E-2.5934E-01 1.7889E-	CK
P T RHO H A S Z GAME U SPECIES E-A A+	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 7.0891E-01 1.9474E+01	STANDING SHOCK 5.6104E+03 7.3515E+01 8.2004E+0 4.8040E+01 5.8146E+0 2.7750E+02 3.3369E+0 1.4701E+00 1.5237E+0 1.5886E+00 1.6988E+0 7.2564E-01 3.9515E+00 3.9272E+0 MOLE FRACTIONS 3.7052E-01 2.5934E-01 2.5934E-01 3.6976E-01 4.1133E-1.7889E-1 3.6976E-01 4.0821E-1	CK 3
P T RHO H A S Z GAME U SPECIES E-A A+	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3943E+00 1.9474E+01 2.5052E-01 4.9893E-01 2.5052E-01 7.6463E-06	STANDING SHOCK 5.6104E+03 7.3515E+01 8.2004E+0 4.8040E+01 5.8146E+0 2.7750E+02 3.3369E+0 1.698E+0 1.5886E+00 1.698E+0 7.2564E-01 3.9272E+0 MOLE FRACTIONS 3.7052E-01 2.5934E-01 3.6976E-01 4.0821E-3.7584E-04 1.5626E-1	CK 3
P T RHO H A S Z GAME U SPECIES E-A A A+++	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3943E+01 1.9474E+01 2.5054E-01 4.9943E-01 2.5052E-01 7.6463E-06 6.1993E-15	STANDING SHOCK 5.6104E+03 7.3515E+01 8.1000E+01 5.8146E+0 2.7750E+00 1.0181E+0 1.5237E+0 1.5886E+00 1.698E+0 3.9515E+00 3.9272E+0 MOLE FRACTIONS 3.7052E-01 2.5934E-01 3.6976E-01 3.6976E-01 3.7584E-04 1.2909E-10 4.2957E-04	CK
P T RHO H A S Z GAME U SPECIES E-A A+ A+++++++++++++++++++++++++++++++	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 7.0891E-01 1.9474E+01 2.5054E-01 4.9893E-01 2.5052E-01 7.6463E-06 6.1983E-15 1.9503E-29	STANDING SHOCK REFLECTED SHO 5.6104E+03 8.1000E+6 4.8040E+01 8.2004E+6 4.8040E+01 5.8146E+0 2.7750E+02 3.3369E+6 1.4701E+00 1.5237E+0 1.5886E+00 1.6998E+6 7.2564E-01 7.4698E-0 3.9515E+00 3.9272E+0 MOLE FRACTIONS	CK 3
P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++A++++A++++A++++A++++A+++	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3948E+01 1.9474E+01 2.5052E-01 4.9893E-01 2.5052E-01 7.6463E-06 6.1983E-15 1.9503E-29	STANDING SHOCK REFLECTED SHO 5.6104E+03 8.1000E+6 4.8040E+01 8.2004E+6 4.8040E+01 5.8146E+0 2.7750E+02 3.3369E+6 9.2057E+00 1.0181E+6 1.4701E+00 1.5237E+0 1.5886E+00 1.698E+6 7.2564E-01 7.4408E-6 3.9915E+00 3.9272E+0 MOLE FRACTIONS	CK 3
P T RHO H A S Z GAME U SPECIES E-A A+A+A+A+A+A+AVI	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3343E+00 7.0891E-01 1.9474E+01 2.5054E-01 2.5054E-01 7.6463E-06 6.1983E-15 1.9503E-29 4.3018E-49 2.5094E-74	STANDING SHOCK 5.6104E+03 7.3515E+01 8.1000E+01 2.7750E+02 3.3369E+0 1.5237E+00 1.0181E+0 1.5886E+00 1.5886E+00 3.9515E+00 3.9272E+0 MOLE FRACTIONS 3.7052E-01 2.5934E-01 3.7584E-04 3.7584E-04 1.5626E 1.2909E-10 4.957E 4.5333E-21 3.0671E 2.0935E-35 6.0566E-54 2.4903E 3.8150E	CK 3
P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++A+++A+A+A+A+A+A+A+A+AAAAAAA	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3343E+00 7.0891E-01 1.9474E+01 2.5054E-01 4.9893E-01 2.5052E-01 7.6463E-06 6.1983E-15 1.9538E-29 4.3018E-49 2.5694E-74 0.	STANDING SHOCK 5.6104E+03 7.3515E+01 8.2004E+0 4.8040E+01 5.8146E+0 2.7750E+02 3.3369E+0 1.0181E+0 1.5886E+00 1.6988E+0 7.2564E-01 3.9515E+00 3.9272E+0 MOLE FRACTIONS 3.7052E-01 2.5934E-01 3.7584E-04 1.2909E-10 4.2957E-04 4.2957E-05 6.3581E-79 1.7557E-068150E-0696E-54 6.3581E-79 1.7557E-074E-0757E-0	CK 3
P T RHO H A S Z GAME U SPECIES E-A A+A+A+A+A+A+AVI	MOVING SHOCK 7.0525E+02 5.4291E+01 9.7357E+00 1.5628E+02 7.1661E+00 1.3918E+00 1.3343E+00 7.0891E-01 1.9474E+01 2.5054E-01 2.5054E-01 7.6463E-06 6.1983E-15 1.9503E-29 4.3018E-49 2.5094E-74	STANDING SHOCK 5.6104E+03 7.3515E+01 8.1000E+01 2.7750E+02 3.3369E+0 1.5237E+00 1.0181E+0 1.5886E+00 1.5886E+00 3.9515E+00 3.9272E+0 MOLE FRACTIONS 3.7052E-01 2.5934E-01 3.7584E-04 3.7584E-04 1.5626E 1.2909E-10 4.957E 4.5333E-21 3.0671E 2.0935E-35 6.0566E-54 2.4903E 3.8150E	CK 3

Pl =	2.00E+03 N/SQ-M	. US1= 7.60E+0	3 M/SEC	P1 = 2	2.00E+03 N/SQ-M	, US1= 8.00E+0	3 M/SEC
		,		•			
	MOVING SHOCK	STÄNDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	8.3662E+02	7.1079E+03	1.0285E+04	ρ	9.3064E+02	8.1784E+03	1.1893E+04
T	5.7042E+01	8.0661E+01	9.2824E+01	ř	5.8931E+01	3.6555E+01	1.0079E+02
ŘНЭ	1.0389E+01	5.1886E+01	6.1130E+01	RHD	1.0769E+01	5.34105+01	6.2765E+01
н	1.8426E+02	3.2919E+02	3.9706E+02	н .	2.0420E+02	3.6598E+02	4.4272E+02
Ä	7.56856+03	1.0091E+01	1.1293E+01	Ä	7.8529E+00	1.0763E+01	1.1889E+01
ŝ	1.4371E+00	1.5277E+00	1.5857E+00	ŝ	1.4685E+00	1.5655E+00	1.6261E+00
ž	1.4118E+00	1.6984E+00	1.8125E+00	ž	1.4664E+00	1.7691E+00	1.88000+00
GAME	7.1129E-01	7.4327E-01	7.5810E-01	GAME	7.1362E-01	7.5650E-01	7.4592E-01
U	2.1283E+01	4.2640E+00	4.3565E+00	U	2.2494E+01	4.5420E+00	4.6586E+00
SPECIE	ES	- MULE FRACTIONS		SPEC IES	s ·	- MOLE FRACTIONS	
E-	2.9169E-01	4.1120E-01	4.4827E-01	E-	3.1806E-01	4.3474E-01	4.6807E-01
A	4.1664E-01	1.7898E-01	1-1103E-01	Ā -	3.6391E-01	1.3403E-01	8.2877E-02
A+ .	2.9165E-01	4.0845E-01	4.3313E-01	Ä÷	3.1799E-01	4.2772E-01	4.3003E-01
A++	1.9061E-05	1.37296-03	7.5695E-03	A++	3.4129E-05	3.5110E-03	1.9021E-02
A+++	5.2821E-14	2.9710E-09	2.05306-07	A+++	2.0821E-13	2.9251E-08	2.0903E-06
A++++	1.05808-27	1.4604E-18	3.6650E-15	A++++	1.3342E-26	9.6360E-17	2.62706-13
AV	2.62078-46	1.9708E-31	4.8798E-26	AV	1.4337E-44	1.4626E-28	4.1669E-23
AVI	3.4240E-70	3.6028E-48	2.4933E-40	, AVI	1.05556-67	5.1566E-44	4.3769E-36
AVII	0.	1.1068E-70	1.6616E-59	AVII	0.	8.8631E-65	1.7235E-53
AVIII	ő.	0.	8.55316-83	AVIII	ó.	6.4499E-90	9.9508E-75
P1 =	2.00E+03 N/SQ-M	US1= 7.80E+0	3 M/SEC	P1 = 2	2.00E+03 N/SQ-M	. US1= 8.20E+0	3 M/SEC
	·					•	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	8.8276E+02	7.6316E+03	1.1070E+04	` ρ	9.7925E+02	8.7240E+03	1.2712E+04
Ť	5.7977E+01	8.3443E+01					1.2/125704
RHD	1.0582E+01		9.68565+01	· T	5.99018+01	8.9852E+01	1.0445E+02
н		5.2751E+01	9.6856E+01 6.1872E+01	T RHO			
A	1.9409E+02	5.2751E+01 3.4726E+02			5.9901E+01	8.9852E+01	1.0445E+02
	1.9409E+02 7.7087E+00		6.1872E+01	RHO	5.9901E+01 1.0939E+01	8.9852E+01 5.3866E+01	1.0445E+02 6.3681E+01
S		3.4726E+02	6.1872E+01 4.1953E+02	RHO H	5.9901E+01 1.0939E+01 2.1455E+02	8.9852E+01 5.3866E+01 3.8495E+02	1.0445E+02 6.3681E+01 4.6585E+02
	7.7087E+00	3.4726E+02 1.0419E+01	6.1872E+01 4.1953E+02 1.1611E+01	RHO H A	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01	1.0445E+02 6.3681E+01 4.6585E+02 1.2143E+01
S	7.7087E+00 1.4527E+00	3.4726E+02 1.0419E÷01 1.5464E+00	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00	RHO H A S	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00	1.0445E+02 6.3681E+01 4.6585E+02 1.2143E+01 1.6455E+00
S Z	7.7087E+00 1.4527E+00 1.4388E+00	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00	RHO H A S Z	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 1.4945E+00	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00	1.0445E+02 6.3681E+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00
S Z Game	7.7087E+00 1.4527E+00 1.4388E+00 7.1237E-01 2.1882E+01	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00	RHO H A S Z Game	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 1.4945E+00 7.1506E-01 2.3092E+01	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01	1.0445E+02 6.3681E+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00
S Z GAME U SPECIE	7.7087E+00 1.4527E+00 1.4538E+00 7.1237E-01 2.1882E+01	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01 4.3955E+00	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00	RHO H A S Z GAME U	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 1.4945E+00 7.1506E-01 2.3092E+01	8.9852E+01 5.386E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01 4.6962E+00	1.0445E+02 6.368IE+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00
S Z GAME U SPECIE	7.7087E+00 1.4527E+00 1.4538BE+00 7.1237E-01 2.1882E+01	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01 4.3955E+00 - MULE FRACTIONS 4.2323E-01	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00	RHO H A S Z GAME U SPECIES	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 1.4945E+00 7.1506E-01 2.3092E+01	8.9852E+01 5.3866E+02 1.38495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01 4.6962E+00	1.0445E+02 6.368IE+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00
S Z GAME U SPECIE	7.7087E+00 1.4527E+00 1.4538E+00 7.1237E-01 2.1882E+01 2.30498E-01 3.0498E-01 3.9006E-01	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01 4.3955E+00 - MOLE FRACTIONS 4.2323E-01 1.5572E-01	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00	RHO H A S Z GAME U	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 7.1506E-01 2.3092E+01	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01 4.6962E+00	1.0445E+02 6.3681E+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00
S Z GAME U SPECIE	7.7087E+00 1.4527E+00 1.4538E+00 7.1237E-01 2.1882E+01 ES 3.0498E-01 3.9006E-01 3.0493E-01	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01 4.3955E+00 - MULE FRACTIONS 4.2323E-01 1.5572E-01 4.1889E-01	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00	RHO H A S GAME U SPECIES E- A A+	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 1.4945E+00 7.1506E-01 2.3092E+01	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01 4.6962E+00 - MOLE FRACTIONS 4.4521E-01 1.1524E-01 4.3390E-01	1.0445E+02 6.368IE+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00
S Z GAME U SPECIE	7.7087E+00 1.4527E+00 1.4538E+00 7.1237E-01 2.1882E+01 3.0498E-01 3.9006E-01 3.0493E-01 2.5537E-05	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01 4.3955E+00 MOLE FRACTIONS 4.2323E-01 1.5572E-01 4.1889E-01 2.1688E-03	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00 4.5863E-01 9.5124E-02 4.3385E-01 1.2389E-02	RHO H A S Z GAME U SPECIES E- A	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 1.4945E+00 7.1506E-01 2.3092E+01 3.3087E-01 3.3087E-01 4.5492E-05	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01 4.6962E+00 - MOLE FRACTIONS 4.4521E-01 1.1524E-01 4.3390E-01 5.6552E-03	1.0445E+02 6.3681E+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00
S Z GAME U SPECIE	7.7087E+00 1.4527E+00 1.4538E+00 7.1237E-01 2.1882E+01 2.1882E+01 3.9006E-01 3.9006E-01 3.0493E-01 2.5537E-05 1.0494E-13	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01 4.3955E+00 - MOLE FRACTIONS 4.2323E-01 1.5572E-01 4.1889E-01 2.1688E-03 9.0299E-09	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00 4.5863E-01 9.5124F-02 4.3385E-01 1.2389E-02 7.0257E-07	RHO H A S Z GAME U SPECIES E- A A+ A++	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 7.1506E-01 2.3092E+01 3.3097E-01 3.3830E-01 3.3078E-01 4.5492E-05 4.1172E-13	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01 4.6962E+00 - MOLE FRACTIONS 4.4521E-01 1.1524E-01 4.3390E-01 5.6552E-03 9.4162E-08	1.0445E+02 6.3681E+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00 4.7680E-01 7.3530E-02 4.2255E-01 2.7118E-02 5.2541E-06
S Z Z GAME U SPECIE E-A A+++ A++++ A++++	7.7087E+00 1.4527E+00 1.4388E+00 7.1237E-01 2.1882E+01 SS 3.0498E-01 3.9006E-01 3.9006E-01 2.5537E-05 1.0494E-13 3.7314E-27	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01 4.3955E+00 MULE FRACTIONS 4.2323E-01 1.5572E-01 4.1889E-01 2.1688E-03 9.0299E-09 1.1206E-17	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00 4.5863E-01 9.5124F-02 4.3365E-01 1.2389E-02 7.0257E-07 3.5089E-14	RHO H A S GAME U SPECIES E- A A+ A++ A+++	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 1.4945E+00 7.1506E-01 2.3092E+01 3.3097E-01 3.3830E-01 3.3078E-01 4.5492E-05 4.1172E-13 4.7655E-26	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01 4.6962E+00 - MOLE FRACTIONS 4.4521E-01 1.1524E-01 4.3390E-01 5.6552E-03 9.4162E-08 8.1786E-16	1.0445E+02 6.368IE+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00
S Z Z GAME U SPECIE E-A A+A+++A+++A++++AV	7.7087E+00 1.4527E+00 1.4538E+00 7.1237E-01 2.1882E+01 2.1882E+01 3.9006E-01 3.9006E-01 3.0493E-01 2.5537E-05 1.0494E-13	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01 4.3955E+00 - MOLE FRACTIONS 4.2323E-01 1.5572E-01 4.1889E-01 2.1688E-03 9.0299E-09	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00 4.5863E-01 9.5124E-02 4.3385E-01 1.2389E-02 7.0257E-07 3.5089E-14 1.7231E-24	RHO H A S Z GAME U SPECIES E- A A+ A++	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 7.1506E-01 2.3092E+01 3.3097E-01 3.3830E-01 3.3078E-01 4.5492E-05 4.1172E-13	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01 4.6962E+00 - MOLE FRACTIONS 4.4521E-01 1.1524E-01 4.3390E-01 5.6552E-03 9.4162E-08 8.1786E-16 4.2488E-27	1.0445E+02 6.3681E+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00 4.7680E-01 7.3530E-02 4.2255E-01 2.7118E-02 5.2541E-06
S Z GAME U SPECIE E- A A+ A++ A+++ A+++ AV AVI	7.7087E+00 1.4527E+00 1.4538E+00 7.1237E-01 2.1882E+01 S 3.0498E-01 3.9006E-01 3.0493E-01 2.5537E-05 1.0494E-13 3.7314E-27 1.8490E-45 4.7540E-69	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01 4.3955E+00 MOLE FRACTIONS 4.2323E-01 1.5572E-01 4.1888E-03 9.0299E-09 1.1206E-17 4.9142E-30	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00 4.5863E-01 9.5124F-02 4.3385E-01 1.2389E-02 7.0257E-07 3.5089E-14 1.7231E-24 4.3234E-38	RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 7.1506E-01 2.3092E+01 3.3097E-01 3.3830E-01 3.3076E-01 4.5492E-05 4.1172E-13 4.7655E-26 1.1268E-43 2.3900E-66	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01 4.6962E+00 - MOLE FRACTIONS 4.4521E-01 1.1524E-01 4.3390E-01 5.655E-03 9.4162E-08 8.1786E-16 4.2488E-27 6.7255E-42	1.0445E+02 6.3681E+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00
S Z Z GAME U SPECIE E-A A+A+++A+++A++++AV	7.7087E+00 1.4527E+00 1.4538E+00 7.1237E-01 2.1882E+01 S 3.0498E-01 3.9006E-01 3.0493E-01 2.5537E-05 1.0494E-13 3.7314E-27 1.8490E-45	3.4726E+02 1.0419E+01 1.5464E+00 1.7338E+00 7.5029E-01 4.3955E+00 - MOLE FRACTIONS 4.2323E-01 1.5572E-01 4.1889E-01 2.1688E-03 9.0299E-09 1.1206E-17 4.9142E-30 3.7932E-46	6.1872E+01 4.1953E+02 1.1611E+01 1.6062E+00 1.8472E+00 7.5348E-01 4.5125E+00 4.5863E-01 9.5124E-02 4.3385E-01 1.2389E-02 7.0257E-07 3.5089E-14 1.7231E-24	RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV AV1	5.9901E+01 1.0939E+01 2.1455E+02 8.0008E+00 1.4844E+00 1.4945E+00 7.1506E-01 2.3092E+01 3.3087E-01 3.3830E-01 3.3078E-01 4.5492E-05 4.1172E-13 4.7655E-26 1.1268E-43	8.9852E+01 5.3866E+01 3.8495E+02 1.1092E+01 1.5841E+00 1.8025E+00 7.5966E-01 4.6962E+00 - MOLE FRACTIONS 4.4521E-01 1.1524E-01 4.3390E-01 5.6552E-03 9.4162E-08 8.1786E-16 4.2488E-27	1.0445E+02 6.3681E+01 4.6585E+02 1.2143E+01 1.6455E+00 1.9113E+00 7.3862E-01 4.7774E+00 4.7680E-01 7.3530E-02 4.2255E-01 2.7118E-02 5.2541E-06 1.4573E-12 6.3261E-22 2.2724E-34

P1 = 2	.00E+03 N/SQ-M	, US1= 8.40E+0	3 M/SEC	P1 = 3	2.00E+03 N/SQ-M	. US1= 8.80E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK				STANDING SHOCK	REFLECTED SHOCK
P	1.0290E+03	9.2809E+03	1.3558E+04	P	1.1319E+03	1.0424E+04	1.5256E+04
T	6.089bE+01	9.3320E+01	1.0792E+02	T	6.2981E+01	1.00185+02	1-1418E+02
RHD	1.1094E+01	5.4215E+01	6.4662E+01	CHA	1.1363E+01	5.4942E+01	6.6608E+01
н.	2.2514E+02	4.0436E+02	4.8981E+C2	н	2.4709E+02	4.4450E+02	5.3805E+02
4	8.1532E+00	1.1394E+01	1.2395E+01	A	8.4737E+00	1.1896E+01	1.2897E+01
S	1.5006E+00	1.6027E+00	1.6650E+00	S	1.5333E+00	1.6391E+00	1.7032E+00
Z	1.52315+00	1.8344E+00	1.9429E+00	2	1.5815E+00	1.8938E+00	2.0060E+00
GAME	7.1672E-01	7.5835E-01	7.3278E-01	GAME	7.2086E-01	7.4592E-01	7.2621E-01
U	2.3689E+01	4.8499E+00	4.9142E+00	. U	2.4875E+01	5.1505E+00	5.1078E+00
SPECIES		- MOLE FRACTIONS		SPEC 1E	s	- MOLE FRACTIONS	
_		`		E-	3.6771E-01	6 71075-01	5 01505-01
E-	3.4343E-01	4.5487E-01	4.8530E-01	A.		4.7197E-01	5.0150E-01
A	3.1321E-01	9.9252E-02	6.6001E-02	A+	2.6469E-01 3.6749E-01	7.6043E-02 4.3202E-01	5.4714E-02
A+	3.4331E-01	4.3689E-01	4.1210E-01	A++			3.8613E-01
A++	6.0592E-05	8.9865E-03	3.6582E-02		1.0791E-04	1.9969E-02	5.7623E-02
A+++	8.1279E-13	2.9598E-07	1.1682E-05	A+++	3.2054E-12	2.2169E-06	4.1523E-05
A++++	1.6812E-25	6.6571E-15	6.5201E-12	A++++	2.1166E-24	2.7069E-13	7.2656E-11
AV	8.3888E-43	1.1553E-25	6.9068E-21	AV	4.6469E-41	4.0193E-23	3.3152E-19
IŅA	4.4733E-65	7.9561E-40	7.4128E-33	IVA	1.5225E-62	3.8044E-36	
AVII	0.	7.6177E-59	6.7065E-49	IIVA	1.0368E-91	1.2556E-53	2.1577E-45
IIIVA	0.	5.7883E-82	1.4807E-68	IIIVA	Э.	5.8344E-75	7.9046E+64
				*			•
			100				
P1 = 2	.005+03 N/SQ-M	, US1= 8.60E+0	3 M/SEC	. P1 = .	2.00E+03 N/SQ-M	, US1= 9.00E+0	3 M/SEC
P1 = 2				. P1 = .			
•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MUVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MÖVING SHOCK 1.0799E+03	STANDING SHOCK 9-8461E+03	REFLECTED SHOCK 1.4413E+04	. Р	MUVING SHOCK 1.1849E+03	STANDING SHOCK 1.1014E+04	REFLECTED SHOCK 1.6120E+04
P T	MDVING SHOCK 1.0799E+03 6.1920E+01	STANDING SHOCK 9.8461E+03 9.6750E+01	REFLECTED SHOCK 1.4413E+04 1.1116E+02	. Р Т	MUVING SHOCK 1.1849E+03 6.4087E+01	STANDING SHOCK 1.1014E+J4 1.0340E+02	REFLECTED SHOCK 1.6120E+04 1.1698E+02
P T RHD	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01	STANDING SHOCK 9.8461E+03 9.6750E+01 5.4592E+01	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.5671E+01	P T RHO	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01
P T RHD H	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02	STANDING SHOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.5671E+01 5.1410E+02	P T RHO H	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02
P T RHJ H A	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00	STANDING SHOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.567LE+01 5.1410E+02 1.2647E+01	P T RHO H A	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01
P T RHD H A S	MUVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00	STANDING SHOCK 9-8461E+03 9-6750E+01 5-4592E+01 4-2419E+02 1-1655E+01 1-6206E+00	REFLECTED SHOCK 1.4413E+04. 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00	P T RHO H A S	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00
P T RHD H A S	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 1.5521E+00	STANDING SHOCK 9-8461E+03 9-6750E+01 5-4592E+01 4-2419E+02 1-1655E+01 1-620EE+00 1-8641E+00	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00	P T RHO H A S Z	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00 1.6114E+00	STANDING SHOCK 1.1014E+J4 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 1.9224E+00	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00
P T RHD H A S Z GAME	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 1.5521E+00 7.1864E-01	STANDING SHOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01	P T RHO H A S Z GAME	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00 1.6114E+00 7.2344E-01	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 1.9224E+00 7.3914E-01	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01
P T RHD H A S	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 1.5521E+00	STANDING SHOCK 9-8461E+03 9-6750E+01 5-4592E+01 4-2419E+02 1-1655E+01 1-620EE+00 1-8641E+00	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00	P T RHO H A S Z	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00 1.6114E+00	STANDING SHOCK 1.1014E+J4 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 1.9224E+00	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00
P T RHD H A S Z GAME	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 1.5521E+00 7.186E+01 2.4283E+01	STANDING SHOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01	REFLECTED SHOCK 1.4413E+04. 1.1116E+02. 6.5671E+01. 5.1410E+02. 1.2647E+01. 1.6842E+00. 1.974E+00. 7.2873E-01. 5.0375E+00.	P T RHO H A S Z GAME	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.643E+00 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 1.9224E+00 7.3914E-01	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.2044E+00
P T RHJ H A S Z GAME U	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 1.5521E+00 7.1864E-01 2.4283E+01	\$TANDING \$HOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01 5.0060E+00	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01 5.0375E+00	P T RHO H A S Z GAME U	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01	STANDING SHOCK 1.0146+04 1.03406+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 1.9224E+00 7.3914E-01 5.2794E+00	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.2044E+00
PT RHD HAS S Z GAME U SPECIES	MOVING SHOCK 1.0799E+03 6.1920F+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 1.5521E+00 7.1864E-01 2.4283E+01	\$TANDING \$HOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01 5.0060E+00 - MOLE FRACTIONS	REFLECTED SHOCK 1.4413E+04. 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01 5.0375E+00	P T RHO H A S Z GAME U SPECIE:	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 1.9224E+00 7.3914E-01 5.2794E+00	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.2044E+00
PTRHDHASSZGAMEU	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 7.1864E-01 2.4283E+01 	STANDING SHOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 7.5312E-01 5.0060E+00 - MOLE FRACTIONS 4.6356E-01 8.6534E-02	REFLECTED SHOCK 1.4413E+04. 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01 5.0375E+00	P T RHO H A S Z GAME U SPECIE:	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 7.3914E+01 5.2794E+00 - MOLE FRACTIONS 4.7982E-01 6.7887E-02	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.2044E+00
P T RHD H A S Z GAME U SPECIES E- A +	MOVING SHOCK 1.079E+03 6.1920E+01 1.1236E+01 2.359E+02 8.3106E+00 1.5169E+00 1.5521E+00 7.1864E-01 2.4283E+01 3.5571E-01 2.8867E-01 3.5555E-01	\$TANDING \$HOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01 5.0060E+00 - MOLE FRACTIONS 4.6356E-01 8.653E-02 4.3625E-01	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01 5.0375E+00	P T RHO H A S Z GAME U SPECIE:	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 1.9224E+00 7.3914E-01 5.2794E+00 - MOLE FRACTIONS 4.7982E-01 6.7887E-02 4.2477E-01	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.2044E+00 5.0899E-01 5.0439E-02 3.7222E-01
PT THIS HAS S Z GAME U SPECIES E-A+A++	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 7.1864E+00 7.1864E+01 2.4283E+01 	\$TANDING \$HOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01 5.0060E+00 - MOLE FRACTIONS 4.6356E-01 8.6534E-02 4.3625E-01 1.3652E-01	REFLECTED SHOCK 1.4413E+04. 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01 5.0375E+00	PTRHOHAS ASZ GAME U SPECIE AAA+	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.643E+00 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01 S	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.212IE+01 1.657IE+00 1.9224E+00 7.3914E-01 5.2794E+00 - MOLE FRACTIONS 4.7982E-01 6.7887E-02 4.247TE-01 2.7520E-02	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.2044E+00 5.0899E-01 5.0439E-02 3.7222E-01 6.8280E-02
P T H A A A A A A + A + + A + + + A + + + +	MOVING SHOCK 1.079E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 1.5521E+00 7.1864E-01 2.4283E+01 3.5571E-01 2.8867E-01 3.5555E-01 8.0745E-05 1.6043E-12	STANDING SHOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01 5.0060E+00 - MOLE FRACTIONS 4.6356E-01 8.6534E-02 4.3625E-01 1.3652E-02 8.4323E-07	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01 5.0375E+00 4.9353E-01 5.9874E-02 3.9970E-01 4.6880E-02 2.3110E-05	P T RHO H A S Z GAME U SPECIE: E- A A+ A++	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01 3.7941E-01 3.7912E-01 1.4480E-04 6.6665E-12	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 1.9224E+00 7.3914E-01 5.2794E+00 - MOLE FRACTIONS 4.7982E-01 6.7887E-02 4.2477E-01 2.7520E-02 5.0973E-06	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.2044E+00 5.0899E-01 5.0439E-02 3.7222E-01 6.8280E-02 6.8461E-05
P T RHD H A S Z GAME U SPECIES E- A + A + + A + + + A + + + + + + + + +	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3549E+02 8.3106E+00 1.5169E+00 1.5521E+00 7.1864E-01 2.4283E+01 3.5571E-01 2.8867E-01 3.5555E-01 8.0745E-05 1.6043E-12 5.8394E-25	STANDING SHOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01 5.0060E+00 - MOLE FRACTIONS 4.6356E-01 8.6534E-02 4.3625E-01 1.3652E-02 8.4323E-07 4.5532E-14	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01 5.0375E+00 4.9353E-01 5.9876E-02 3.9870E-01 4.6880E-02 2.3110E-05 2.3718E-11	P T RHO H A S Z GAME U SPEC IE: E- A A+ A++ A+++	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01 S 3.7941E-01 2.4132E-01 3.7912E-01 1.4480E-04 6.4665E-12 7.7304E-24	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 1.9224E+00 7.3914E-01 5.2794E+00 - MOLE FRACTIONS 4.7982E-01 6.7887E-02 4.2477E-01 2.7520E-02 5.0973E-06 1.2699E-12	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.2044E+00 5.0899E-01 5.0439E-02 6.8280E-02 6.8260E-02 6.8461E-05 1.9093E-10
P T RHJ H A S Z GAME U SPECIES E-A+A+A++A+++A+++A+++A+++A+++A++++A++++	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 1.5521E+00 7.1864E+01 2.4283E+01 	\$TANDING \$HOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01 5.0060E+00 - MOLE FRACTIONS 4.6356E-01 8.6534E-02 4.3625E-01 1.3652E-02 8.4323E-07 4.5532E-14 2.4006E-24	REFLECTED SHOCK 1.4413E+04. 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01 5.0375E+00 4.9353E-01 5.9874E-02 3.9970E-01 4.6880E-02 2.3110E-05 2.3718E-11 5.4710E-20	P T RHD H A S Z GAME U SPECIE: A A+ A++ A+++ A+++	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.643E+02 8.643E+02 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01 S	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.212IE+01 1.657IE+00 1.9224E+00 7.3914E-01 5.2794E+00 - MOLE FRACTIONS 4.7982E-01 6.7887E-02 4.2477E-01 2.7520E-02 5.0973E-06 1.2699E-12 4.6660E-22	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.0899E-01 5.0439E-02 3.7222E-01 6.8280E-02 6.8461E-05 1.9093E-10 1.5837E-18
P T RHD H A S Z GAME U SPECIES E-A++A+++A+++A+++A+++A+++AVI	MOVING SHOCK 1.079E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 1.5521E+00 7.1864E-01 2.4283E+01 	STANDING SHOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01 5.0060E+00 - MOLE FRACTIONS 4.6356E-01 8.6534E-02 4.3625E-01 1.3652E-02 8.4323E-07 4.5532E-14 2.4006E-24 6.4200E-38	REFLECTED SHOCK 1.4413E+04 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01 5.0375E+00 4.9353E-01 5.9874E-02 3.9370E-01 4.6880E-02 2.3110E-05 2.3710E-11 5.4710E-20 1.5241E-31	P T RHO H A S Z GAME U SPECIE: A+ A++ A+++ AVI	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.6434E+00 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01 3.7941E-01 2.4132E-01 3.4132E-01 1.4480E-04 6.4665E-12 7.7304E-24 3.6262E+0	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.2121E+01 1.6571E+00 1.9224E+00 7.3914E-01 5.2794E+00 - MOLE FRACTIONS 4.7982E-01 6.7887E-02 4.2477E-01 2.7520E-02 5.0973E-06 1.2699E-12 4.6660E-22 1.3358E-34	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.2044E+00 5.0899E-01 5.0439E-02 3.7222E-01 6.8280E-02 6.8461E-05 1.9093E-10 1.5837E-18 2.1285E-29
P T RHJ H A S Z GAME U SPECIES E-A+A+A++A+++A+++A+++A+++A+++A++++A++++	MOVING SHOCK 1.0799E+03 6.1920E+01 1.1236E+01 2.3599E+02 8.3106E+00 1.5169E+00 1.5521E+00 7.1864E+01 2.4283E+01 	\$TANDING \$HOCK 9.8461E+03 9.6750E+01 5.4592E+01 4.2419E+02 1.1655E+01 1.6206E+00 1.8641E+00 7.5312E-01 5.0060E+00 - MOLE FRACTIONS 4.6356E-01 8.6534E-02 4.3625E-01 1.3652E-02 8.4323E-07 4.5532E-14 2.4006E-24	REFLECTED SHOCK 1.4413E+04. 1.1116E+02 6.5671E+01 5.1410E+02 1.2647E+01 1.6842E+00 1.9744E+00 7.2873E-01 5.0375E+00 4.9353E-01 5.9874E-02 3.9970E-01 4.6880E-02 2.3110E-05 2.3718E-11 5.4710E-20	P T RHD H A S Z GAME U SPECIE: A A+ A++ A+++ A+++	MUVING SHOCK 1.1849E+03 6.4087E+01 1.1474E+01 2.5844E+02 8.643E+02 8.643E+02 1.5499E+00 1.6114E+00 7.2344E-01 2.5464E+01 S	STANDING SHOCK 1.1014E+04 1.0340E+02 5.5410E+01 4.6529E+02 1.212IE+01 1.657IE+00 1.9224E+00 7.3914E-01 5.2794E+00 - MOLE FRACTIONS 4.7982E-01 6.7887E-02 4.2477E-01 2.7520E-02 5.0973E-06 1.2699E-12 4.6660E-22	REFLECTED SHOCK 1.6120E+04 1.1698E+02 6.7659E+01 5.6293E+02 1.3141E+01 1.7212E+00 2.0366E+00 7.2487E-01 5.0899E-01 5.0439E-02 3.7222E-01 6.8280E-02 6.8461E-05 1.9093E-10 1.5837E-18

Pl = 2.00E+03 N/SQ-M, US1= 9.20E+03 M/SFC	P1 = 2.00E+G3 N/SQ≃M, . US1= 9.60E+O3 M/SEC .
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MOVING SHOCK "STANDING SHOCK REFLECTED SHOCK	. MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 1.2391E+03 1.1614E+04 1.6984E+04	P 1.3506E+03 1.2825E+04 1.8700E+04
T 6.5247E+01 1.0644E+02 1.1982E+02	T 6.7780E+31 1.1202E+02 1.2517E+02
RHO 1.1569E+01 5.5930E+01 6.8479E+01	RHD 1.1704E+01 5.6990E+01 6.9913E+01
H . 2.7035E+02 4.8655E+02 5.8820E+02	H ' 2.9400E+02 5.3040E+02 6.4008E+02
	. ,20,,002,25
A 8.8207E+00 1.2343E+01 1.3403E+01	
\$ 1.5665E+00 1.6750E+00 1.7406E+00	
2 1.6415E+00 1.9510E+00 2.0699E+00	2 1.7024E+00 2.0090E+00 2.1370E+00
GAME 7.2644E-01 7.3367E-01 7.2433E-01	GAME 7.3409E-01 7.2700E-01 7.2513E-01
U 2.6050E+01 5.3949E+00 5.2947E+00	U 2.7212E+01 5.5959E+00 5.4707E+00
•	
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E- 3.9081E-01 4.8743E-01 5.1690E-01	E- 4.1261E-01 5.0223E-01 5.3205E-01
A 2.1858E-01 6.1291E-02 4.6257E-02	A 1.7515E-01 5.1114E-02 3.9056E-02
A+ 3.9042E-01 4.1514E-01 3.5691E-01	A+ 4.1187E-01 3.9112E-01 3.2599E-01
A+++ 1.3244E-11 1.0510E-05 1.1015E-04"	A+++ 5.9826E-11 3.4464E-05 2.4801E-04
A++++ 2.8879E-23 4.9163E-12 4.8202E+10	A++++ 4.6417E-22 4.6588E-11 2.3968E-09
AV 2.6988E-39 4.0285E-21 7.1236E-18	AV 2.3738E-37 1.4778E-19 9.7926E-17
AVI 6.0420E-60 3.0772E-33 1.9493E-28	AVI 3.7314E-57 5.9275E-31 9.3837E-27
AVII 4.9547E-88 1.6935E-49 1.3753E-42	AVII 5.1730E-84 3.0375E-46 3.5467E-40
AVIII 0. 2.0631E-69 4.8585E-60	AVIII). 4.9510E-65 8.9116E-57
2000011 07	
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	21 2 25 23 25 25 25 25 25 25 25 25 25 25 25 25 25
P1 = 2.00E+03 N/SQ-M, US1= 9.40E+03 M/SEC	P1 = 2.00E+03 N/SQ-M, US1= 9.80E+03 M/SEC
P1 = 2.00E+03 N/SQ-M, US1= 9.40E+03 M/SEC	P1 = 2.00E+03 N/SQ-M, US1= 9.80E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.4078E+03 1.3427E+04 1.9541E+04
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2944E+03 1.2224E+04 1.7853E+04 T 6.0461E+01 1.0931E+02 1.2252E+02	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.40785+03 1.34275+04 1.95415+04 T 6.91855+01 1.14595+02 3(1.27715+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 1.29445403 1.22245404 1.78535404 T. 6.04615401 1.09315402 1.22525402 RHO 1.16515401 5.64695401 6.92616401	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.4078E+03 1.3427E+04 1.9541E+04 T 6.9185E+01 1.1459E+02 3(1.2771E+02 RHO 1.1742E+01 5.7489E+01 7.0494E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2944E+03 1.2224E+04 1.7853E+04 T 6.6461E+01 1.0931E+02 1.2252E+02 RHO 1.1651E+01 5.6489E+01 6.9261E+01 H 2.8190E+02 5.0826E+02 6.1393E+02	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.40785+03 1.34275+04 1.95415+04 T 6.91855+01 1.14595+02 3(1.27715+02 RHO 1.17425+01 5.74895+01 7.04945+01 H 3.06355+02 5.52965+02 6.66705+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2944E+03 1.2224E+04 1.7853E+04 T 6.0461E+01 1.0931E+02 1.2252E+02 RHO 1.1651E+01 5.6469E+01 6.9261E+01 H 2.8190E+02 5.0826E+02 A 9.0049E+00 1.2566E+01 1.3663E+01	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.407aE+03 1.3427E+04 1.9541E+04 T 6.9185E+01 1.1459E+02 3(1.2771E+02 RHO 1.1742F+01 5.7889E+01 7.0494E+01 H 3.0635E+02 5.5296E+02 6.6670E+02 A 9.4125E+00 1.3016F+01 1.4188E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2944503 1.2224504 1.7853504 T 6.0461501 1.0931502 1.2252502 RHO 1.1651501 5.6469501 6.9261601 H 2.8190502 5.0826502 6.1393502 A 9.0049500 1.2566501 1.3663501 S 1.5830500 1.6928500 1.7596600	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.4078E+03 1.3427E+04 1.9541E+04 T 6.9185E+01 1.1459E+02 3(1.2771E+02 RHD 1.1742F+01 5.7789E+01 7.0494E+01 H 3.0635E+02 5.5296E+02 6.6670E+02 A 9.4125E+00 1.3016F+01 1.4188E+01 5 1.0169E+00 1.7284E+00 1.77972E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2944E+03 1.2224E+04 1.7853E+04 1.252E+02 1.252E+02 1.2552E+02 1.2552E+02 1.2552E+02 1.2552E+02 1.2562E+01 1.3663E+01 1.3663E+01 1.3663E+01 1.3663E+01 1.5830E+00 1.6928E+00 1.7596E+00 2.16715E+00 1.9797E+00 2.1031E+00 2.	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.40785+03 1.34275+04 1.95415+04 T 6.91855+01 1.14595+02 3(1.27715+02 RHO 1.17425+01 5.74955+01 7.04945+01 H 3.06356+02 5.52966+02 6.66705+02 A 9.41265+00 1.30165+01 1.41885+01 5 1.61695+00 1.72845+00 1.79725+00 Z 1.73305+00 2.03835+00 2.17055+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK 1.40745+03 1.34276+04 1.95416+04 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.2746+01 3.06356+02 5.52966+02 6.66706+02 4.941266+00 1.30166+01 1.41886+01 5.1.61696+00 1.72846+00 1.79726+00 2.03836+00 2.17056+00 GAME 7.38956-01 7.25376-01 7.26176-
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2944E+03 1.2224E+04 1.7853E+04 1.252E+02 1.252E+02 1.2552E+02 1.2552E+02 1.2552E+02 1.2552E+02 1.2562E+01 1.3663E+01 1.3663E+01 1.3663E+01 1.3663E+01 1.5830E+00 1.6928E+00 1.7596E+00 2.16715E+00 1.9797E+00 2.1031E+00 2.	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.40785+03 1.34275+04 1.95415+04 T 6.91855+01 1.14595+02 3(1.27715+02 RHO 1.17425+01 5.74955+01 7.04945+01 H 3.06356+02 5.52966+02 6.66705+02 A 9.41265+00 1.30165+01 1.41885+01 5 1.61695+00 1.72845+00 1.79725+00 Z 1.73305+00 2.03835+00 2.17055+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK 1.40745+03 1.34276+04 1.95416+04 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.2746+01 3.06356+02 5.52966+02 6.66706+02 4.941266+00 1.30166+01 1.41886+01 5.1.61696+00 1.72846+00 1.79726+00 2.03836+00 2.17056+00 GAME 7.38956-01 7.25376-01 7.26176-
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2944E+03 1.2224E+04 1.7853E+04 1.252E+02 1.252E+	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2944E+03 1.2224E+04 1.7853E+04 1.252E+02 1.252E+	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK 1.40745+03 1.34276+04 1.95416+04 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.27716+02 36 1.2746+01 3.06356+02 5.52966+02 6.66706+02 4.941266+00 1.30166+01 1.41886+01 5.1.61696+00 1.72846+00 1.79726+00 2.03836+00 2.17056+00 GAME 7.38956-01 7.25376-01 7.26176-
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.29445+03 1.22245+04 1.78535+04 1.76535+04 1.09315+02 1.22525+02 RHO 1.16515+01 5.64895+01 6.92615+01 H 2.81905+02 5.08265+02 6.13935+02 A 9.00495+00 1.25665+00 1.35965+00 5 1.58305+00 1.69285+00 1.75965+00 2 1.67155+00 1.97975+00 2.10315+00 GAME 7.29925-01 7.29685-01 7.24475-01 U 2.66335+01 5.50015+00 5.38345+00 SPECIES MOLE FRACTIONS MOLE FR	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK 1.407a5e.03 1.3427E+04 1.9541E+04 1.9541E+04 1.2771E+02 3(1.2771E+02 3(1.2771
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.2944E+03 1.2224E+04 1.7853E+04 T 6.0461E+01 1.0931E+02 1.252E+02 RHO 1.1651E+01 5.6469E+01 6.9281E+01 H 2.8190E+02 5.0826E+02 6.1393E+02 A 9.0049E+00 1.2566E+01 1.3663E+01 S 1.5830E+00 1.6928E+00 1.7596E+00 Z 1.6715E+00 1.9797E+00 2.1031E+00 GAME 7.2992E-01 7.2968E-01 7.2447E-01 U 2.6633E+01 5.5001E+00 5.3834E+00 SPECIES MOLE FRACTIONS SPECIES MOLE FRACTIONS FRACTIONS FRACTIONS E- 4.0175E-01 4.9488E-01 5.2451E-01 A 1.9677E-01 5.5820E-02 4.2539E-02 4.2539E-	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.4078E+03 1.3427E+04 1.9541E+04 1.9541E+04 1.1459E+02 31 1.2771E+02 1.2771E+03 1.2771E+0
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.29445 + 03 1.2224 = 04 1.785 3 = 04 1.765 = 02 1.225 = 02 RHO 1.1651 = +01 5.6489 = +01 6.9261 = +01 H 2.8190 = +02 5.0826 = +02 6.1393 = +02 A 9.0049 = +00 1.2566 = +01 1.3663 = +01 S 1.5830 = +00 1.6928 = +00 1.7596 = +00 S 1.5830 = +00 1.9797 = +00 2.1031 = +00 GAME 7.292 = -01 7.2968 = -01 7.2447 = -01 U 2.6633 = +01 5.5001 = +00 5.3834 = +00 SPECIES	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.40785403 1.34276404 1.95416404 1.95416404 1.27716402 36 1.27716402 37 1.27716402 36 1.27716402 36 1.27716402 36 1.27716402 36 1.27716402 36 1.27716402 36 1.2716402 36 1.27646401 1.41886401 1.41886401 1.41886401 1.79726400 2.77866401 1.72846400 1.79726400 2.77866401 1.72876400 2.77866401 1.72876400 2.77866401 3.68556400 3.55886402 3.58886402 3.58886402 3.58886402 3.58886402 3.58886402 3.77796401 3.1078640
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.29445 + 03 1.2224 = 04 1.785 3 = 04 1.765 = 02 1.222 = 02 1.225 = 02 1.225 = 02 1.225 = 02 1.225 = 02 1.2526 = 02 1.2526 = 02 1.2526 = 02 1.2566 = 01 1.366 3 = 01 1.2566 = 01 1.366 3 = 01 1.2566 = 01 1.366 3 = 01 1.2566 = 01 1.3596 = 00 1.6928 = 00 1.7596 = 00 1.7	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.407485403 1.342785404 1.954185405 1.277185405 36 1.277185405 37 1.277185405 36 1.277185405 36 1.277185405 36 1.277185405 36 1.277185405 36 1.277185405 36 1.277185405 36 1.277185405 36 1.30165560 1.30165560 1.41886501 1.41886501 1.41886501 1.41886501 1.41886501 1.728465400 1.797285400 1.797285405 1.733085400 2.038385400 2.170585405 2
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.29445+03 1.22245+04 1.78535+04 1.76535+04 1.22265+02 1.22256+02 1.22265+02 1.25265+02 1.25265+02 1.25265+02 1.26365+01 6.92315+01 1.25665+01 6.3935+02 1.25665+01 1.36635+01 1.36635+01 1.36365+01 1.36365+01 1.36365+01 1.36365+01 1.367155+00 1.97976+00 2.10315+00 2.10315+00 7.29425-01 7	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.4078E+03 1.3427E+04 1.9541E+04 T 6.9185E+01 1.1459E+02 3(1.2771E+02 RHD 1.1742F+01 5.7489E+01 7.0494E+01 H 3.0635E+02 5.5296E+02 6.6670E+02 A 9.4126E+00 1.316E+01 1.4188E+01 S 1.6169E+00 1.7284E+00 1.7972E+00 Z 1.7330E+00 2.0383E+00 2.1705E+00 GAME 7.3895E-01 7.2537E-01 7.2617E-01 U 2.7788E+01 5.6855E+00 5.5591E+00 SPECIES MOLE FRACTIONS SPECIES MOLE FRACTIONS SPECIES HOLE FRACTIONS SPECIES MOLE FRACTIONS 3.5888E-02 A 4.2194E-01 3.7779E-01 3.1074E-01 A 4.2194E-01 3.7779E-01 3.1074E-01 A + 4.2194E-01 3.7779E-01 3.1074E-01 A + 4.2194E-01 3.7779E-01 3.1074E-01 A + 4.2194E-01 3.779E-01 3.5888E-02 A + 4.2194E-01 3.779E-01 3.679E-01 3.679E-01 A + 4.2194E-01 3.779E-01 3.679E-01 3.679E
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.29445+03 1.22245+04 1.78535+04 1.76565+02 1.22245+04 1.78535+04 1.76515+01 1.09315+02 1.22256+02 1.22265+02 1.25265+02 6.92315+01 1.36635+01 1.36635+01 1.36635+01 1.36635+01 1.36635+01 1.35965+00 1.69285+00 1.75965+00 1.75965+00 1.799665+00 1.79965+00	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK 1.407a5e3 1.3427E+04 1.9541E+04 1.2771E+02 1.9541E+04 1.2771E+02 1.9541E+04 1.2771E+02 1.2772E+00 1.284E+00 1.2792E+00 1.284E+00 1.2792E+00 1.2537E-01 1.2617E-01 1.2778BE+01 5.6855E+00 5.5581E+00 1.2778BE+01 5.6855E+00 5.5581E+00 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778E-01 1.2778E-01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.29445e03 1.22245e04 1.7853fe04 1.7853fe04 1.7853fe04 1.2525fe02 1.2525fe02 1.2556fe01 5.6669fe01 6.9261fe01 6.9261fe00 6	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK P 1.4078E+03 1.3427E+04 1.9541E+04 T 6.9185E+01 1.1459E+02 3(1.2771E+02 RHD 1.1742E+01 5.7489E+01 7.0494E+01 1.4186E+01 7.0494E+01 1.4186E+01 1.4186E+01 1.4186E+01 1.4186E+01 1.4186E+01 1.4186E+01 1.7330E+00 2.0383E+00 2.1705E+00 2.1705E+00 3.886E-02 7.2537E-01 7.261E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.29445+03 1.22245+04 1.78535+04 1.76565+02 1.22245+04 1.78535+04 1.76515+01 1.09315+02 1.22256+02 1.22265+02 1.25265+02 6.92315+01 1.36635+01 1.36635+01 1.36635+01 1.36635+01 1.36635+01 1.35965+00 1.69285+00 1.75965+00 1.75965+00 1.799665+00 1.79965+00	MUVING SHUCK STANDING SHOCK REFLECTED SHOCK 1.407a5e3 1.3427E+04 1.9541E+04 1.2771E+02 1.9541E+04 1.2771E+02 1.9541E+04 1.2771E+02 1.2772E+00 1.284E+00 1.2792E+00 1.284E+00 1.2792E+00 1.2537E-01 1.2617E-01 1.2778BE+01 5.6855E+00 5.5581E+00 1.2778BE+01 5.6855E+00 5.5581E+00 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778BE+01 1.2778E-01 1.2778E-01

P1 =	2.00E+03 N/SQ-M	, US1= 1.00E+0	4 M/SEC	P1 = 2.	.00E+03 N/SQ-M	. US1= 1.04E+0	4 M/SEC
	-			•			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
₽	1.4660E+03	1.4016E+04	2.0362E+04	· P	1.5849E+03	1.5130E+04	2.1892E+04
T .	7.0711E+01	1.1712E+02	1.3033E+02	T	7.4254E+01	1.21826+02	1.35406+02
RHD	1.1757E+01	5.7836E+01	7.0801E+01	RHO	1.1707E+01	5.8271E+01	7.09688+01
H	3.1895E+02	5.7589E+02		H	3.4487E+02	6.2283E+02	7.4901E+02
			6.9375E+02	A			
A	9.6358E+00	1.3251E+01	1.4465E+01		1.0133E+01		
S	1.6337E+30	1.7468E+00	1.8170E+00	S	1.6675E+00	1.7831E+00	1.8559E+00
Z	1.7634E+00	2.0692E+00	2.2065E+00		1.8232E+00	2.1313E+00	2.27846+00
GAME	7.4462E-01	7.2453E-01	7.2758E-01	GAME	7.5839E-01	7.2463E-01	7.3104E-01
U	2.83586+01	5.77416+00	5.6459E+00	· U	2.9480E+01	5.9332E+00	5.82346+00
SPEC IE		- MOLE FRACTIONS		SPEC IE S		- MOLE FRACTIONS	
3. 2012	•	- HOLE TRACTIONS		3. 20123		1000 1 1 1011	
E- ·	4.3291E-01	5.16728-01	5.4680E-01	E - .	4.5150E-01	5.3081E-01	5.6109E-01
A	1.3491E-01	4.3239E-02	3.2691E-02	A	9 • 856 3E = 02	3.6689E-02	2.6945E-02
A+ .	4.31465-01	3.6344E-01	2.9472E-01	A+	4.4836E-01	3.3439E-01	2.6377E-01
A++ .	7.2674E-04	7.6506E-02	1.2529E-01	A++	1.5719E-03	9.7919E-02	1.4727E-01
A+++	3.1039E-10	8.8537E-05	4.9854E-04	A+++	2.0018E-09	1.9227E-04	9.2567E-04
A++++	9.4556E-21	2.8680E-10	9.7633E-09	A++++	2.8530E-19.		3.4598E-08
AV	2.7237E-35	2.7801E-18	9.8752E-16	AV	5.8097E-33	3.2824E-17	8-0094E-15
ÄVI	3.4784E-54			AVI.	8.1068E-51		
	3.0370E-80	4.3949E-29	2.8945E-25	AVII.	4.9087E-75	1.6686E-27	
AVII		1.4208E-43	4.8638E-38			2.5775E-41	4.2422E-36
IIIVA	0.	1.9781E-61	6.9875E-54	AVIII) .	2.22236-58	2.9679E-51
	2.005+03 N/SU-M	us1= 1.02E+0	MASSET	D1 - 2	.JOE+03 N/SQ-M	. US1= 1.06E+0	A M/CEC
71 -	2.002+03 N/3Q=R	1, USI= 1.02E+C	14 H/3EL	P1 - 2.	.JUETUS N/54-M	P 021= 1.005+0	4 H/SEC '
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MONTHS SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	1.52515+03	1.45916+04	2.1153E+04	P			2.26208+04
ŕ	7.2384E+01			Ť			
RHD		1.1951E+02	1.3288E+02	RHO	7.6282E+01	1.2411E+02	1.37936+02
	1.1748E+01	5.8138E+01	7.0997E+01		1.1655E+01	5.8328E+01	7.0840E+01
H	3.3179E+02	5.9922E+02	7.2121E+02	H	3.5820E+32	6.4686E+02	7.7733E+02
A	9.87466+00	1.3483E+01	1.4740E+01	· A	1.0396E+01	1.3456E+01	1.52998+01
S,	1.6505E+00	1.7649E+00	1.8364E+00	Ş	1.6838E+00	1.8015E+00	1.87556+00
Z	1.7934E+3J	2.1000E+J0	2.2422E+00	Z	1.8511E+00	, 2.1636E+00	2.31506+00
GAME	7.5114E-01	7.2434E-01	7.2922E-01	GAME	7.6541E-01	7.2532E-01	. 7.3301E-01
U	2.89235+01	5.8523E+00	5.7344E+00	U	3.0035E+01	6.0101E+00	5.91426+00
SPECIE		MOLE FRACTIONS		SPECIES		- MULE FRACTIONS	
Jr CC IC	·	MULE PRACTIONS	,	arcules	3	- HULT FRACTIONS	
E-	4.4240E-01	5.2380E-01	5.5401E-01	E-	4.5979E-01	5.3780E-C1	5.6804E-01
A	1.1625E-01	3.9852E-02	2.9748E-02	A	8.2798E-02	3.3705E-02	2.4295E-02
A+	4.4030E-01	3.4902E-01	2.7916E-01	Ä+	4.5503E-01	3.1946E-01	2.4852E-01
A++	1.053dE-03	8.7194E-02	1.3639E-01	A++ .	2.3780E-03	1.0876E-01	1.5791E-01
A+++	7.6139E-10	1.3268E-04	6.8520E-04	A+++	5.4664E-09	2. 7242E-04	1.2346E-03
A++++	4.8908E-20			A++++			6.2807E-08
AV		6.3148E-10	1.8662 E-08		1.7852E-18	2.6114E-09	
	3.6459E-34	1.0014E-17	2.8808E-15	AV	1.0391E-31	1.0139E-16	2-15706-14
AVI	1.5051E-52	2.89815-28	1.4223E-24	AVI	5.2389E-49	8.8228E-27	2.8540E-23
AVII	1.7730E-77	2.1049E-42	4.7765E-37	AVII	1.8341E-72	2.7920E-40	3.52988-35
AVIII	٥.	7.49545-60	1.5415E-52	AVIII ,	0.	5.5498E-57	5.2414E-50
			•				

P1 =	2.005+03 N/SQ-M	, US1= 1.08E+	04 M/SEC	P1 = .	2.00E+03 _{.4} /SQ - M	. US1= 1.15E+0	04 M/SEC
	MUVING SHOCK	STÄNDING SHOCK	REFLECTED SHOCK	•	MOVING CHOCK	STANDING SHOCK	REFLECTED SHOCK
•				_			
ρ.	1.7073E+03	1.6159E+04	2.3311E+04	P	1.9311E+03	1.7900E+04	2.5680E+04
T .	7.854JE+01	1.2634E+02	1.4051E+02	Ţ	8.7242E+01	1.3412E+02	1.4969E+02
CHA	1.1575E+31	5.8237E+01	7.0511E+01	RHO	1.12915+01	5.7685E+01	6.9064E+01
Η.	3.7177E+02	6.7118E+02	8.0659E+02	н .	. 4.2123E+02	7.5952E+02	9.10736+02
Α.	1.3664E+01	1.4196E+01	1.5589E+01	Α .	1.13855+01	1.5067E+01	1.6614E+01
S	1.7002E+30	1.4201E+00	1.8957E+00	· S	1.75596+00	1.8850E+00	1.9649E+00
Z ·	1.87815+00	2.1962E+00	2.3529E+00	Z	1.9603E+30	2.3137E+00	- 2 • 484 0E+00
GAME	7.70986-01	7.2632E-01	7.3510E-01	GAME	7.5787E-01	7.3155E-01	7.4233E-01
U	3.05826+01	6.0864E+00	6.0362E+00	U	3.24875+31	6.3678E+00	6.3579E+00
SPEC IE	s	- MOLE FRACTIONS	5	SPEC 1E	s	- MOLÉ FRACTIONS	
£-	4.6754E-01	5.4466E-01	5.7499E-01	F- '	4.8983E-31	5.6779E-01	5.9743E-01
Ā	6.8598E-02	3.0903E-02	2.1737E-02	À			1.42698-02
Α+	4.6017E-01	3.0459E-01	2.3320E-01	Ā+ .		2.5294E-01	1.8317E-01
A++	3.68795-03	1.1947E-01	1.6844E-01	A++		1.5587E-01	2.01145-01
A+++ .,	1.5901E-08	3.7649E-04	1.6353E-03	A+++	5.8865E-07	1.0331E-03	3.99398-03
A++++				4+++	9.150JE-15		
	1.248 /E-17	4.9815E-09	1.1289E-07	AV			
AV.	2.1937E-30	2.9206E-16	5.7266E-14		0.9422E-26	d.6605E-15	1.39626-12
AVI	4.2163E-47	4.2197E-26	1.2253E-22	IVA	1.33185-40	6.4709E-24	1.4643E-20
AVII	d.9200E-70		2.8558E-34	AVII	1.34005-60	3.5676E-36	2.73536-31
AVILI	0.	1.15348-55	8.8973E-49	1 I I VA	6.4383E-85	2.00346-51	9.75306-45
P1 =	2.00E+03 N/SQ-M	, US1= 1.10E+0	04 M/SEC	P1 = 2	2.J0E+03 N/SQ-M	. US1= 1.23E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHUCK		MOVING SHOCK	STANDING SHOCK	RÉFLECTED SHOCK
P	. 1.76975+03	1.6638E+04	2.3956E+04	ρ	2.1018E+03	1.9440E+J4	2.7842E+04
T .	8.0976E+01	1.2854E+02	1.4304E+02	T	9.27516+01	1.4306E+02	1.5703E+U2
RHO	1.1482E+01	· 5.8062E+01	7.0072E+01	RHO	1.1250E+01	5.7832F+01	6.876 OF +O1
н	3.8558E+02	6.9584E+02	8.35575+02	Н	4.5854E+02	8.2660E+02	9.9093E+02
A	1.39146+31	1.4439E+01	1.5876E+01	4 (1.17465+01	1.5732E+01	1.73865+01
S	1.71045+30	1.8386E+00	1.9155E+00	s ,	1.7944E+93	1.43086+30	2.0139E+00
ž	1.90345+00	2.22925+30	2.3901E+00	ž	2.01435+00	2.4CCGE+00	2.5785E+00
GAME	7.72858-01	7.2758E-01	7.3719E-01	GAME	7.3851F-01	7.36325-01	7-4669E-01
Ü	3.11255+01	6.1635E+00	6.12395+00	Ü	3.38085+01	6.60145+00	6.6222E+00
SPEC TE	s	- MOLE FRACTIONS	;	SPEC IES	·	- MOLE FRACTIONS	***
E -	4.7462E-31	5.5142E-01	5.8160E-01	E-	3.0354E-01	5.8333E-01	6.1216E-01
A	5.6519E-02	2.8263E-02	1.9397E-02	Ā	2.58798-02	1.7396E-02	1.01706-02
A +	4.631JE-01	2.8973E-01	2.1053E-01	A+	4.37635-01		
4 + . 4 + +	5.76308-03	1.30075-01		A++	3.29495-02	1.3011E-01	2.2J04E-01
			1.7834E-01			1.9773F-03	7.2388E-03
4++	4.7399E-08	5.1075E-04	2.1293F-03	A+++	3.83206-06	1.5234E-07	2.8270E-06
4+++	9.1489E-17	9.2007E-09	1.9677E-07	A++++	2.91746-13	8.4653E-14	1.3095E-11
A V.	5.0053E-29	7.9987E-16	1.4480E-13	AV	1.64861-23		4.2933E-19
AVI	3.84558-45	1.8750E-25	4.89948-22	IVA	3.55685-37	1.95715-22	
11 VA	5.3401E-67	2.2194E-38	2.0850E-33	I IVA	9.94928-56	4.7997E-34	3.5369E-29
IIIVA	o.	2.0571E-54	~~1.3146E-47	I I IVA	2.1450E-78	1.5424E-48	7.20268-42

P1 = 2.	00E+03 N/SQ-M	. US1= 1.25E+0	4 M/SEC	P1 = 2	-00E+03 N/SQ-M	, US1= 1.35E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	2.2819E+03	2.1248E+04	3.0432E+04	P ·	2.6673E+03	2.5379E+04	3.6458E+04
Ţ	9.7370E+01	1.4646E+02	1.6508E+02	T '	1.0515E+02	1.6055E+02	1.8221E+02
	1.1322E+01	5.8326E+01	6.8974E+01	RHO	1.1585E+01	5.9417E+01	7.0075E+01
н -	4.9751E+02	8.9766E+02	1.0762E+03	н	5.8033E+02	1.0490E+03	1.2598E+03
A	1.2114E+01	1.6433E+01	1.8185E+01	Ä	1.2893E+01	1.7880E+01	1.9779E+01
Š .	1.8323E+00	1.9760E+00	2.0625E+00	Š	1.9082E+00	2.0651E+00	2.1574E+00
ž	2.0700E+00	2.4873E+00	2.6727E+00	ž.	2.1895E+00	2.6604E+00	2.8554E+00
GAME '	7-2804E-01	7.4126E-01	7.4955E-01	GAME-	7.2196E-01	7.4850E-01	7.5196E-01
Ü	3.5321E+01	6.8652E+00	6.9146E+00	U	3.8230E+01	7.4627E+00	7.5457E+00
•		, 0000000					
SPEC IES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	5.1690E-01	5.9796E-01	6.2584E-01	E-	5.4328E-01	6.2412E-01	6.4978E-01
A	2.0210E-02	1.3201E-02	7.0198E-03	A	1.3773E-02	6.9688E-03	3.1817E-03 "
A+ 1 10	4.0889E-01	1.8336E-01	1.2106E-01	A+	3.4271E-01	1.2457E-01	7.5933E-02 ·
A++	5.3981E-02	· 2.0185E-01	2.3347E-01	A++	1.0015E-01	2.3348E-01	2.3955E-01
	1.4587E-05	3.6315E-03	1.2599E-02	A+++	9.1644E-05	1.0853E-02	3.1459E-02
A++++	3.5970E-12	5.6466E-07	1.0070E-05	A++++	1.2521E-10	6.6098E-06	9.3811E-05
AV	9.0285E-22	7.7579E-13		AV	2.7907E-19	5.2222E-11	5.8555E-09
IVA	1.2016E-34	5.4818E-21	1.1886E-17	IVA	5.3860E-31	3.2208E-18	4.8488E-15
AVII	3.9137E-52	5.8547E-32	4.2529E-27	IIVA	6.5146E-47	5.8043E-28	2.5449E-23
AVILL	1.449ZE-73	1.0583E-45	4.8713E-39	11.1A	1.6018E-66	2.9021E-40	6.9155E-34
P1 = 2.	00E+03 N/SQ-M	. US1= 1.30E+0	4 M/SEC	P1 = 2	.00E+03 N/SQ-M	, US1= 1.40E+0	04 M/SEC
•		,		P1 = 2		, US1= 1.40E+0	04 M/SEC
•	MOVING, SHOCK	STANDING SHOCK	REFLECTED SHOCK	P1 = 2	MOVING SHOCK		
•	MOVING SHOCK	STANDING SHOCK 2.3245E+04	REFLECTED SHOCK 3.3330E+04	•		STANDING SHOCK	REFLECTED SHOCK
Р ⁻	MOVING SHOCK 2-4706E+03 1-0142E+02	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK 2.8717E+03	STANDING SHOCK 2.7618E+04	REFLECTED SHOCK 3.9755E+04
P	MDVING, SHOCK 2-4706E+03 1-0142E+02 1-1445E+01	STANDING SHOCK 2.3245E+04 1.5331E+02 5.8894E+01	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01	Р Т	MOVING SHOCK 2.8717E+03 1.0872E+02	STANDING SHOCK 2.7618E+04 1.6817E+02	REFLECTED SHOCK 3.9755E+04 1.9097E+02
P T RHO	MOVING SHOCK 2.4706E+03 1.0142E+02 1.1445E+01 5.3811E+02	STANDING SHOCK 2.3245E+04 1.5331E+02	REFLECTED SHOCK 3.3330E+04 1.7344E+02	P T RHO	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01	STANDING SHOCK 2.7618E+04 2.6817E+02 5.9808E+01	REFLECTED SHOCK 2.9755E+04 1.9097E+02 7.0667E+01
P T RHO H	MDVING, SHOCK 2-4706E+03 1-0142E+02 1-1445E+01	STANDING SHOCK 2.3245E+04 1.5331E+02 5.8894E+01 9.7178E+02	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03	P T RHD H	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01 6.2415E+02	STANDING SHOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03	REFLECTED SHOCK 3.9755E+04 1.9097E+02 7.0667E+01 1.3574E+03
P T RHO H	MOVING SHOCK 2-4706E+03 1-0142E+02 1-1445E+01 5-3811E+02 1-2497E+01	STANDING SHOCK 2.3245E+04 1.5331E+02 5.8894E+01 9.7178E+02 1.7154E+01	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03 1.8972E+01	P T RHO H	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01 6.2415E+02 1.3301E+01	STANDING SHOCK 2.7618E+04 2.7618E+02 5.9808E+01 1.1291E+03 1.8610E+01	REFLECTED SHOCK 3.9755F+04 1.9097E+02 7.0667E+01 1.3574E+03 2.0590E+01
P T RHO H A S	MOVING SHOCK 2.4706E+03 1.0142E+02 1.1445E+01 5.3811E+02 1.2497E+01 1.8702E+00	STANDING SHOCK 2.3245E+04 1.5331E+02 5.8894E+01 9.7178E+02 1.7154E+01 2.C208E+00	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00	P T RHO H A S Z Game	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01	STANDING SHOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 2.7459E+00 7.4998E-01	REFLECTED SHOCK 3.97556+04 1.90976+02 7.0667E+01 1.35746+03 2.0590E+01 2.2043E+00 2.9458E+00 7.5359E-01
P T RHO H A S	MOVING SHOCK 2.4706E+03 1.0142E+02 1.1445E+01 5.3811E+02 1.2497E+01 1.8702E+00 2.1284E+00	STANDING SHOCK 2-3245E+04 1-5331E+02 5-8894E+01 9-7178E+02 1-7154E+01 2-C208E+00 2-5745E+00	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00	P T RHO H A S Z	MOVING SHOCK 2.8717E+03 1.0872E+02 ** 1.1724E+01 ** 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00	STANDING SHOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 2.7459E+00	REFLECTED SHOCK 3.9755E+04 1.9097E+02 7.0667E+01 1.3574E+03 2.0590E+01 2.2043E+00 2.9458E+00
P T RHO H A S Z GAME	MOVING SHOCK 2.4700E+03 1.0142E+02 1.1445E+01 5.3811E+02 1.2497E+01 1.8702E+00 2.1284E+00 7.2343E-01	STANDING SHOCK 2.32456+04 1.53316+02 5.88946+01 9.71786+02 1.71546+01 2.62086+00 2.57456+00 7.45566-01	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00 7.5096E-01 7.2235E+00	P T RHO H A S Z Game	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01	STANDING SHOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 2.7459E+00 7.4998E-01	REFLECTED SHOCK 3.9755E+04 1.9097E+02 7.0667E+01 1.3574E+03 2.0590E+01 2.2043E+00 2.9458E+00 7.5359E-01 7.8675E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 2.4706E+03 1.0142E+02 1.1445E+01 5.3811E+02 1.2497E+01 1.8702E+00 2.1284E+00 7.2343E-01 3.6772E+01	STANDING SHOCK 2.32456+04 1.53316+02 5.88946+01 9.71786+02 1.71546+01 2.02086+00 2.57456+00 7.45566-01 7.15516+00	REFLECTED SHOCK 3.3330E+04 1.734-4E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00 7.5096E-01 7.2235E+00	P T RHO H A S Z Game U	MOVING SHOCK 2.8717E+03 1.0872E+03 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01	STANDING SHOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 2.7459E+00 7.4998E-01 7.7820E+00	REFLECTED SHOCK 2.9755E+04 1.9097E+02 7.0667E+01 1.3574E+03 2.0590E+01 2.2043E+00 2.9458E+00 7.5359E-01 7.8675E+00
PTRHOHAAS SCAME U SPECIES E-	MOVING SHOCK 2.4706E+03 1.0142E+02 1.1445E+01 5.3811E+02 1.249FE+01 1.8702E+00 2.1284E+00 7.2343E+01 3.6772E+01	STANDING SHOCK 2.3245E+04 1.5331E+02 5.8894E+01 9.7178E+02 1.7154E+01 2.0208E+00 2.5745E+00 7.4556E-01 7.1551E+00 - MOLE FRACTIONS 6.1157E-01	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00 7.5096E-01 7.2235E+00	P T RHO H A S I Game U Species	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01	\$\text{STANDING SHOCK}\$ 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 2.7459E+00 7.4998E-01 7.7820E+00 - MOLE FRACTIONS 6.3581E-01	REFLECTED SHOCK 3.9755E+04 1.9097E+02 7.0667E+01 1.3574E+03 2.0590E+01 2.2043E+00 2.9458E+00 7.5359E-01 7.8675E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 2.4706E+03 1.0142E+02 1.1445E+01 5.3811E+02 1.2497E+01 1.8702E+00 2.1284E+00 7.2343E-01 3.6772E+01	STANDING SHOCK 2-3245F-04 1-5331E+02 5-8894E+01 9-7178E+02 1-7154E+01 2-0208E+00 7-4556E-01 7-1551E+00 - MOLE FRACTIONS 6-1157E-01 9-7277E-03	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00 7.5096E-01 7.2235E+00	P T RMO H A S I GAME U SPECIES E- A	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01	STANDING SMOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 7.499E+00 7.499E+00 - MOLE FRACTIONS 6.3581E-01 4.8574E-03	REFLECTED SHOCK 3.9755E+04 1.9097E+02 7.0667E+01 1.3574E+03 2.0590E+01 2.2043E+00 2.9458E+00 7.5359E-01 7.8675E+00
P T RHO H A S Z GAME U SPECIES E-A A+	MOVING SHOCK 2-4706E+03 1-0142E+02 1-1445E+01 5-3811E+02 1-2497E+01 1-8702E+00 2-1284E+00 7-2343E-01 3-6772E+01	STANDING SHOCK 2.32456+04 1.53316+02 5.88946+01 9.71786+02 1.71546+01 2.02086+00 2.57456+00 7.45566-01 7.15516+00 - MOLE FRACTIONS 6.11576-01 9.72776-03 1.52256-01	REFLECTED SHOCK 3.3330E+04 1.734-4E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00 7.5096E-01 7.2235E+00	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 2.8717E+03 1.0872E+03 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01	\$TANDING \$HOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 2.7459E+00 7.4998E-01 7.7820E+00 - MOLE FRACTIONS 6.3581E-01 4.8574E-03 1.0043E-01	REFLECTED SHOCK 3.9755E+04 1.9097E+02 7.0867E+01 1.3574E+03 2.0590E+01 2.2043E+00 2.4458E+00 7.5359E+01 7.8675E+00
PT RHO H A S Z GAME U SPECIES E-A A A A A A A A A A A A A A A A A A A	MOVING SHOCK 2.4706E+03 1.0142E+02 1.1445E+01 5.3811E+02 1.2497E+01 1.8702E+00 2.1284E+00 7.2343E+01 3.6772E+01	STANDING SHOCK 2.3245Fe04 1.5331E+02 5.8894E+01 9.7178E+02 1.7154E+01 2.0208E+00 2.5745E+00 7.4556E-01 7.1551E+00 - MOLE FRACTIONS 6.1157E-01 9.7277E-03 1.5225E-01 2.2003E-01	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00 7.5096E-01 7.2235E+00 6.3813E-01 4.7802E-03 9.6599E-02 2.3997E-01	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01	\$\text{STANDING SHOCK} 2.7618E+04 \tag{2.7618E+02} 5.9808E+01 \tag{1.6817E+02} 5.9808E+01 \tag{1.1291E+03} \\ 1.8610E+01 \tag{2.1098E+00} 2.7459E+00 \tag{7.4998E-01} 7.7820E+00 - MOLE FRACTIONS \tag{6.3581E-01} 4.8574E-03 \tag{1.0043E-01} 2.4132E-01 \tag{2.4132E-01} 2.4132E-01	REFLECTED SHOCK 3.9755E+04 1.9097E+02 7.0667E+01 1.3574E+03 2.0590E+01 2.2043E+00 2.4945E+00 7.5359E+01 7.8675E+00
P T RHO H A S Z GAME U SPECIES E-A A A A A A A A A A A A A A A A A A A	MOVING SHOCK 2.4706E+03 1.0142E+02 1.1445E+01 5.3811E+02 1.2497E+01 1.8702E+00 2.1284E+00 7.2343E-01 3.6772E+01 5.3017E-01 1.6512E-02 3.7651E-01 7.6769E-02 4.0253E-05	STANDING SHOCK 2.32456+04 1.53316+02 5.88946+01 9.71786+02 1.71546+01 2.02086+00 2.57456+00 7.45566-01 7.15516+00 - MOLE FRACTIONS 6.11576-03 1.52256-01 2.20036-01 6.41476-03	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00 7.5096E-01 7.2235E+00 6.3813E-01 4.7802E-03 9.6599E-02 2.3997E-01 2.0486E-02	P T RHO H A S GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 2.8717E+03 1.0872E+03 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01 5.5615E-01 1.1567E-02 3.0861E-01 1.2349E-01 1.8484E-04	STANDING SHOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 2.7459E+00 7.4998E-01 7.7820E+00 MOLE FRACTIONS 6.3581E-01 4.8574E-03 1.0043E-01 2.4132E-01 1.7551E-02	REFLECTED SHOCK 3.975 5E+04 1.909 7E+02 7.066 7E+01 1.357 4E+03 2.059 0E+01 2.204 3E+00 2.945 8E+00 7.5359E-01 7.8675E+00 6.6054E-01 2.1190E-03 5.9481E-02 2.3276E-01 4.4856E-02
PTRHOHAAS CGAMEU SPECIES E-AA+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A	MOVING SHOCK 2-4706E+03 1-0142E+02 1-1445E+01 5-3811E+02 1-2497E+01 1-8702E+00 2-1284E+00 7-2343E-01 3-6772E+01 1-6512E-02 3-7651E-01 7-6769E-02 4-0253E-05 2-5130E-11	STANDING SHOCK 2.32456+04 1.53316+02 5.88946+01 9.71786+02 1.71546+01 2.02086+00 2.57456+00 7.45566-01 7.15516+00 - MOLE FRACTIONS 6.11576-01 9.72776-03 1.52256-01 2.20036-01 6.41476-03 1.99266-06	REFLECTED SHOCK 3. 3330E+04 1. 7344E+02 6. 9539E+01 1. 1659E+03 1. 8972E+01 2. 1095E+00 2. 7634E+00 7. 5096E+01 7. 2235E+00 6.3813E+01 4.7802E+03 9.6599E+02 2.3997E+01 2.0486E+02 3.2121E+05	P T RHO H A S Z GAME U SPECIES E- A A+++ A+++ A++++	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01 5.5615E-01 1.1567E-02 3.0861E-01 1.2349E-01 1.8484E-04 5.0526E-10	\$TANDING \$HOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 7.4998E-01 7.7820E+00 MOLE FRACTIONS 6.3581E-01 4.8574E-03 1.0043E-01 1.7551E-02 2.0505E-05	REFLECTED SHOCK 3.9755E+04 1.9097E+02 7.0667E+01 1.3574E+03 2.0590E+01 2.2043E+00 2.4455E+00 7.5359E-01 7.8675E+00 4.44856E-02 2.3276E-01 4.4856E-02 2.3398E-04
P T RHO H A S Z GAME U SPECIES E-A A+++++++A+++++A+++++A+++++A+++++A+++++A++++	MOVING SHOCK 2.4706E+03 1.0142E+02 1.1445E+01 5.3811E+02 1.2497E+00 2.1284E+00 7.2343E-01 3.6772E+01 5.3017E-01 1.6512E-02 3.7651E-01 7.6769E-02 4.0253E-05 2.5130E-11 2.0594E-20	STANDING SHOCK 2.3245Fe04 1.5331E+02 5.8894E+01 9.7178E+02 1.7154E+01 2.0208E+00 2.5745E+00 7.4556E-01 7.1551E+00 - MOLE FRACTIONS 6.1157E-01 9.7277E-03 1.5225E-01 2.2003E-01 6.4147E-03 1.9926E-06 6.6473E-12	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00 7.5096E-01 7.2235E+00 6.3813E-01 4.7802E-03 9.6599E-02 2.3997E-01 2.0486E-02 3.2121E-05 8.8076E-10	P T RHO H A S Z GAME U SPECIES E-A A ++++ A++++ AV	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01 5.5615E-01 1.1567E-02 3.0861E-01 1.2349E-01 1.8484E-04 5.0526E-10 2.7336E-18	\$TANDING \$MOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 7.4998E+01 7.7820E+00 MOLE FRACTIONS 6.3581E-01 4.8574E-03 1.0043E-01 2.4132E-01 1.7551E-02 2.0505E-05 3.7277E-10	REFLECTED SHOCK 3.9755E+04 1.9097E+02 7.0667E+01 1.3574E+03 2.0590E+01 2.2043E+00 2.9458E+00 7.5359E-01 7.8675E+00 6.6054E-01 2.1190E-03 5.9481E-02 1.23276E-01 4.4856E-02 2.3988E-04 3.1630E-08
P T RHO H A S Z GAME U SPECIES E- A A A A A A A A A A A A A A A A A A	MOVING SHOCK 2-4706E+03 1-0142E+02 1-1445E+01 5-3811E+02 1-2497E+01 1-8702E+00 2-1284E+00 7-2343E-01 3-6772E+01 5-3017E-01 1-6512E-02 3-7651E-01 4-0253E-05 2-5130E-11 2-0594E-22 1-1655E-32	STANDING SHOCK 2.32456+04 1.53316+02 5.88946+01 9.71786+02 1.71546+01 2.02086+00 2.57456+00 7.45566-01 7.15516+00 - MOLE FRACTIONS 6.11576-01 2.20036-01 6.41476-03 1.99266-06 6.64736-12 1.40856-19	REFLECTED SHOCK 3.3330E+04 1.734-4E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00 7.5096E-01 7.2235E+00 6.3813E-01 4.7802E-03 9.6599E-02 2.3997E-01 2.0486E-02 3.2121E-05 8.8076E-10 2.6213E-16	P T RHO H A S Z GAME U SPECIES E- A A++ A+++ A+++ AV AVI	MOVING SHOCK 2.8717E+03 1.0872E+03 1.0872E+02 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01 5.5615E-01 1.1567E-02 3.0861E-01 1.2349E-01 1.249E-01 1.249E-01 1.249E-01 2.7736E-18 1.5636E-29	STANDING SHOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 7.4998E-01 7.7820E+00 - MOLE FRACTIONS 6.3581E-01 4.8574E-03 1.0043E-01 2.4132E-01 1.7551E-02 2.0505E-05 3.7277E-10 6.4628E-17	REFLECTED SHOCK 2.975 5E+04 1.909 7E+02 7.066 7E+01 1.357 4E+03 2.05 90E+01 2.204 3E+00 2.945 8E+00 7.5359E-01 7.867 5E+00 6.60 54 E-01 2.11 90 E-03 5.94 81 E-02 2.32 76 E-01 4.48 56 E-02 2.3988 E-04 3.16 30 E-08 6.65 30 E-14
P T RHO H A S Z GAME U SPECIES E-A A+++++++A+++++A+++++A+++++A+++++A+++++A++++	MOVING SHOCK 2.4706E+03 1.0142E+02 1.1445E+01 5.3811E+02 1.2497E+01 1.8702E+00 2.1284E+00 7.2343E-01 3.6772E+01 5.3017E-01 1.6512E-02 3.7651E-01 7.65769E-02 4.0253E-05 2.5130E-11 2.05946E-20	STANDING SHOCK 2.3245Fe04 1.5331E+02 5.8894E+01 9.7178E+02 1.7154E+01 2.0208E+00 2.5745E+00 7.4556E-01 7.1551E+00 - MOLE FRACTIONS 6.1157E-01 9.7277E-03 1.5225E-01 2.2003E-01 6.4147E-03 1.9926E-06 6.6473E-12	REFLECTED SHOCK 3.3330E+04 1.7344E+02 6.9539E+01 1.1659E+03 1.8972E+01 2.1095E+00 2.7634E+00 7.5096E-01 7.2235E+00 6.3813E-01 4.7802E-03 9.6599E-02 2.3997E-01 2.0486E-02 3.2121E-05 8.8076E-10	P T RHO H A S Z GAME U SPECIES E-A A ++++ A++++ AV	MOVING SHOCK 2.8717E+03 1.0872E+02 1.1724E+01 6.2415E+02 1.3301E+01 1.9463E+03 2.2530E+00 7.2231E-01 3.9691E+01 5.5615E-01 1.1567E-02 3.0861E-01 1.2349E-01 1.8484E-04 5.0526E-10 2.7336E-18	\$TANDING \$MOCK 2.7618E+04 1.6817E+02 5.9808E+01 1.1291E+03 1.8610E+01 2.1098E+00 7.4998E+01 7.7820E+00 MOLE FRACTIONS 6.3581E-01 4.8574E-03 1.0043E-01 2.4132E-01 1.7551E-02 2.0505E-05 3.7277E-10	REFLECTED SHOCK 3.9755E+04 1.9097E+02 7.0667E+01 1.3574E+03 2.0590E+01 2.2043E+00 2.9458E+00 7.5359E-01 7.8675E+00 6.6054E-01 2.1190E-03 5.9481E-02 1.23276E-01 4.4856E-02 2.3988E-04 3.1630E-08

$p_s = 2 \text{ kN/m}^2$

P1 =	2.00E+03 N/S4-M	. US1= 1.45E+0	4 M/SEC	•	P1 = 1	2.00E+03 N/SQ-M	. US1= 1.55E+0	04 M/SEC
				•				
_	- MOVING SHOCK		REFLECTED SHOCK			MOVING SHOCK		REFLECTED SHOCK
P	3.0834E+03	2.9935E+04	4.3181E+04	•	P	3.5284E+03	3.4743E+04	5.0289E+04
T-	1.1223E+02"	1.7579E+02	1.9976E+02		T.	1.1938E+02	1.9120E+02	2.1758E+02
RHO	1.18505+01	6.0222E+01	7.1184E+01		RHO	1.2042E+01	6.0753E+01	7.1743E+01
• н	6.6956E+02	1.2120E+03	1.4586E+03		H 1	7.6513E+02	1.3865E+03	1.6715E+03
A	I.3724E+01	1.9316E+01	2.1420E+01		A	" 1.4620E+01	. 2.0751E+01	. 2.3151E+01
S .	1.9847E+J0	2-1529E+00	2.2507E+00		S	2.0620E+00	2.2391E+00	2 • 342 7E + 00
Z `	2.3185E+00	2.8276E+00	3.0367E+00		4	2.4543E+00	2.9910E+00	3.221 7E+00
GAME	7.2386E-OL	7.5062E-01	7.5634E-01		GAME	7.29495-01	7.5297E-01	7.6461E-01
U	4.1149E+01	8.1096E+00	8.1890E+00		U	. 4.4051E+01	8.7450E+00	8.8386E+00
		•						
SPEC I	ES	- MOLE FRACTIONS	·		SPECIE	\$	- MOLE FRACTIONS	
E-	5.6869E-01	6 . 46 34E-01	6.7069E-01	٠.	E-	. 5.9256E-01	4 45475-01	4 80415 01
					Ā		6.6567E-01	6.8961E-01
A	9.6944E-03		1.4073E-03 4.6295E-02		Ã÷	6.5980E-03	1.6010E-03	6.0750E-04
A+	2.7488E-01	8.0812E-02		•	A++	2.1016E-01	5.1374E-02	2.7236E-02
A++ .	1.4639E-01	2.4293E-01	2.2096E-01			1.89645-01	2.3009E-01	1.8750E-01
A+++	3.4433E-04	. 2.6481E-02	6.0096E-02		A+++	1.0367E-03	5.0953E-02	9.2833E-02
A++++	1.7620E-09	5.6188E-05	5.4917E-04		A++++	1.7622E-08	3.1471E-04	2.2173E-03
AV	2.1870E-17	2-1914E-09			AV	9.9269E-16		1.9869E-06
AVI.	3.4332E-28	9.8062E-16			AVI	1.0153E-25	1.1793E-13	4.5813E-11
AVII	7.0391E-43	2.2663E-24	3.6058E-20		AVII	2.58426-39	2.3709E-21	1.59086-17
IIIVA	4.6679E-61	2.2874E-35	1.4257E-29		AVEII	3.2237E-56	3.0745E-31	6.1415E-26
							• •	
			•					
		•				•		
	•							
P1 =	2.00E+03 N/SQ-M	. US1= 1.50E+0	M M/SEC		P1 = 2	2.90E+03 N/SG-M	. US1= 1.60E+0	4 M/SEC -
			•					
	MGVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	3.3024E+03	3.2325E+04	4.6702E+04		P	3.7613E+03	3.7197E+04	5.3914E+04
T .	1.1576E+02	1.8348E+02	2.0861E+02		Ŧ	1.2317E+02	1.9884E+02	2.2662E+02
RHD	1.1958E+01	- 6.0564E+01	7.15578+01		RHO	1.21006+01	6.0878E+01	. 7.1762E+01
н .	7.1655E+02	1.2979E+03	1.5633E+03		н	8.15286+02	1.4778E+03	1.7833E+03
A	1.4163E+01	2.0926E+01	2.2274E+01		A	1:50976+01	2.1485E+01	2.4038E+01
S	2.0232E+00	2.19598+00	2.2968E+00		S	2.1007E+30	2.2816E+00	. 2.3879E+00
ž	2.3858E+00	2.9089E+00	3.1286E+00		Ž	2.5238E+00	3.0729E+00	3.3151E+00
GAME	7.2631E-01	7.5140E-01	7.60155-01		GAME	7.3323E-01	7.5550E-01	7.6911E-01
Ü	4.2603E+01	8.4217E+00	8.5116E+00	•	U	4.5442E+01	9.0474E+00	9.1737E+00
SPECI	ES	- MULE FRACTIONS			SPECIES		- MOLE FRACTIONS	
E-	5.8085E-01	6.5623E-01	6.8037F-01		E-	6.0377E-01	6.7457E-01	6.9835E-0L
Ā	8.0549E-03	2.3327E-03	9.29048-04		Ā	5.3011E-03	1.1010E-03	3.94368-04
Ä÷	2.4195E-01	6.4650E-02	3.5713E-02		A+	1.7982E-01	4.0713E-02	2.0560E-02
A++	1.6854E-01	2.3893E-01	2.0547E-01		A++	2.09388-01	2.1762E-01	1.6830E-01
A+++ '	6.0815E-04	3.7720E-02	7.6377E-02		A+++	1.7267E-03	6.5346E-02	1.0839E-01
A++++	5.7558E-09	1.3930E-04	1.1464E-03		A++++	5.2345E-08	6.4647E-04	3.9989E-03
AV	1.5302E-16	1.1038E-08	5.6682E-07		AV	6.1d34E-15	1.8054E-07	6.2493E-06
AVI	6.2039E-27	1.1928E-14	6.2139E-12		ÄVI	1.5725E-24	9.37528-13	
	4.5409E-41	8.4897E-23	8.5250E-19					` 2.8882E-10
AVII	1.3129E-58	3.2308E-33	1.09698-27		FIVA	1.3547E-37	4.8623E-20	2.37956-16
AVIII	1031276730	3463005-33	1.02025_51		IIIVA	7.0129E-54	1.9320E-29	2.5518E-24

P1 - 2.00E+03 N/SQ-H; US1= 1.05E+04 M/SEC	PI = 2.302+03 N/SQ-M; USI= 1.75E+04 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK .
P 4.0009E+03 3.9626E+04 5.7616E+04	P 4.4999E+03 4.4422E+04 6.4847E+04
T 1.27175+02 2.0650E+02 2.3623E+02	T 1.3604E+02 2.2212E+02 2.5487E+02
RHO' 1.2131E+01 6.0802E+01 7.1438E+01	RHD 1.2115E+01 6.0118E+01 7.0578E+01
H 8.6699E+02 1.5717E+03 1.9009E+03	H 9.7513E+02 1.7670E+03 2.1423E+03
A 1.5594E+01 2.2239E+01 2.4971E+01	A 1.6628E+01 2.3801E+01 2.6719E+01
\$ 2.1396E+00 2.3242E+00 2.4354E+00	S 2.2168E+00 2.4097E+00 2.5255E+00
Z 2.5934E+00 3.1561E+00 3.4142E+00	Z 2.7304F+00 3.3266E+00 3.6049E+00
GAME 7.3729E-01 7.5885E-01 7.7313E-01	GAME 7.4434E-J1 7.6667E-01 7.7698E-01
U 4.6924E+3! 9.3735E+33 9.5891E+00	U 4.97625+01 1.0029E+01 1.0300E+01
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SPECIES MOLE FRACTIONS	COECTES MEN E FOACTIONS
SPECIES HOLE FRACTIONS	SPECIES MULE FRACTIONS
E- 6.1441E-01 6.8315E-01 7.0710E-01	E- 6.3376E-01 6.9939E-01 7.2260E-01
A 4.1577E-03 7.5150E-04 2.4729E-04	A 2.3513E-03 3.3888E-04 9.9932E-05
A+ 1.5129E-01 3.1988E-02 1.5089E-02	A+ 1.0141E-01 1.9093E-02 8.1298E-03
A++ 2.2731E-01 2.0241E-01 1.4767E-01	A++ 2.5509E-01 1.6708E-01 1.1030E-01
A+++ 2.834 JE-03 8.046 ZE-02 1.2289 E-01	A+++ 7.3896E-C3 1.1026E-01 1.4172E-01
A++++ 1.5347E-07 1.2371E-03 6.9731E-03	A++++ 1.3J27E-06 3.8303E-03 1.7027E-02
AV 3.8351E-14 6.0674E-07 1.8881E-05	AV 1.4540E-12 5.3124E-06 1.2014E-04
AVI 2.4072E-23 6.3603E-12 1.7337E-C9	AVI 5.8384E-21 2.0359E-10 3.6462E-08
AVII (6:9812E-36 7.9659E-19 3.3363E-15	AVII 1.9508E-32 1.2816E-16 3.0467E-13
AVIII 1.4884E-51 8.9728E-28 9.7479F-23	AVIII 7.1940E-47 9.7255E-25 5.0345E-20
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P1 = 2.006+03 N/S0-4. US1= 1.706+04 M/SEC	DI = 2 005403 N/S/1-M. US1= 1 805404 M/SEC
P1 = 2.005+03 N/SQ-4, US1= 1.70E+04 M/SEC	P1 = 2.00E+03 N/SQ-M, US1= 1.80E+04 M/SEC
P1 = 2.005+03 N/S0-1, US1= 1.70E+04 M/SEC	P1 = 2.00E+03 N/Sq-M, US1= 1.80E+04 M/SEC
MOVING SHOCK STANDING SHOCK - REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK - REFLECTED SHOCK P 4:2471E+33 4:20+0E+04 6:1256E+04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 4.7594E+03 4.6794E+04 6.8468E+04
MOVING SHOCK STANDING SHOCK - REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK - REFLECTED SHOCK P 4:2471E+33 4:20+0E+04 6:1256E+04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 4.7594E+03 4.6794E+04 6.8468E+04
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4:2471E+J3 4.2040E+04 6.1256E+04 T 1.3145E+02 2.1413E+02 2.4555E+02 RHO 1.2134E+J1 6.J617E+01 7.1036E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.7594E+03 4.6794E+04 6.8468E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01
MOVING SHOCK STANDING SHOCK - REFLECTED SHOCK P 4:2471E+J3 4.2040E+04 6.1256E+04 T 1.3145E+02 2.1413E+02 2.4555E+02 RHO 1.2134E+J1 6.J617E+J1 7.1036E+J1 H 9.2028E+J2 1.6681E+J3 2.0204E+J3	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.7594E+03 4.6794E+04 6.8468E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.0315E+03 1.8685E+03 2.2683E+03
MOVING SHOCK STANDING SHOCK - REFLECTED SHOCK P 4:24/1E+33 4:20+0E+04 6:1256E+04 T 1.3145E+02 2:1413E+02 2:4555E+02 RHO 1.2134E+01 6:3617E+01 7:1086E+01 H 9:2020E+02 1:6681E+03 2:0204E+03 A 1:6107E+01 2:2999E+01 2:5855E+01	MOVING SHUCK STANDING SHUCK REFLECTED SHUCK P 4.7594E+03 4.6794E+04 6.8468E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.315E+03 1.8685E+03 2.2683E+03 A 1.7143E+01 2.4573E+01 2.7563E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4:24/1E+J3 4.2040E+04 6.1250E+04 T 1.3145E+02 2.1413E+02 2.4555E+02 RHO 1.2134E+J1 6.3617E+01 7.1036E+01 H 9.2028E+J2 1.6681E+J3 2.0204E+03 A 1.6107E+01 2.2999E+01 2.5855E+J1 S 2.1783E+00 2.3659E+00 2.4804E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.7594E+03 4.6794E+04 6.8468E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.0315E+03 1.8685E+03 2.2683E+03 A 1.7143E+01 2.4573E+01 2.7563E+01 S 2.2552E+00 2.4509E+00 2.5705E+00
MOVING SHOCK STANDING SHOCK - REFLECTED SHOCK P 4:2471E+J3	MOVING SHUCK STANDING SHUCK, REFLECTED SHUCK P 4.7594E+03 4.6794E+04 6.8468E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.0315E+03 1.8685E+03 2.2683E+03 A 1.7143E+01 2.4573E+01 2.7563E+01 S 2.2552E+00 2.4509E+00 2.5705E+00 Z 2.7966E+00 3.4104E+00 3.7012E+00
MOVING SHOCK STANDING SHOCK - REFLECTED SHOCK P 4:24/1E+J3 4.2040E+04 6.1256E+04 T 1.3145E+02 2.1413E+02 2.4555E+02 RHO 1.2134E+J1 6.J617F+01 7.1086E+01 H 9.2028E+02 1.6681E+J3 2.0204E+03 A 1.6107E+01 2.2999E+01 2.5855E+01 S 2.1783E+00 2.3659E+00 2.4804E+00 Z 2.6626E+J0 3.2389E+00 3.5093E+00 GAME 7.4123E-01 7.6265E-01 7.7576E-01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.7594E+03 4.6794E+04 6.8468E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.3315E+03 1.8685E+03 2.2683E+03 A 1.7143E+01 2.4573E+01 2.7563E+01 S 2.2552E+00 2.4573E+00 2.5705E+00 Z 2.7964E+00 3.4104E+00 3.7012E+00 GAME 7.4585E-01 7.7011E-01 7.7702E-01
MOVING SHOCK STANDING SHOCK - REFLECTED SHOCK P 4:2471E+J3	MOVING SHUCK STANDING SHUCK REFLECTED SHUCK P 4.7594E+03 4.6794E+04 6.8468E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.0315E+03 1.8685E+03 2.2683E+03 A 1.7143E+01 2.4573E+01 2.7563E+01 S 2.2552E+00 2.4509E+00 2.5705E+00 Z 2.7964E+00 3.4104E+00 3.7012E+00
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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4:24/1E+J3 4.2040E+04 6.1256E+04 T 1.3145E+02 2.1413E+02 2.4555E+02 RHO 1.2134E+J1 6.J617E+01 7.1036E+01 H 9.2028E+J2 1.6681E+J3 2.0204E+03 A 1.6107E+01 2.2999E+01 2.5855E+J1 S 2.1783E+00 2.3659E+00 2.4804E+00 Z 2.6626E+U0 3.2389E+00 3.5093E+00 GAME 7.4123E-01 7.6265E-J1 7.7576E-J1 U 4.8348E+01 9.6951E+00 9.9573E+00	MOVING SHOCK STANDING SHUCK REFLECTED SHOCK P 4.7594E+03 4.6794E+04 6.8648E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.3315E+03 1.8665E+03 2.2683E+03 A 1.7145E+01 2.4573E+01 2.7563E+01 S 2.2552E+00 2.4573E+01 2.7563E+01 C 2.7964E+00 3.4104E+00 3.7012E+00 GAME 7.4585E-01 7.7011E-01 7.7702E-01 U 5.1171E+01 1.0369E+01 1.0670E+01
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MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4:24/1E+J3 4.2040E+04 6.1256E+04 T 1.3145E+02 2.1413E+02 2.4555E+02 RHO 1.2134E+J1 6.J617E+01 7.1036E+01 H 9.2028E+J2 1.6681E+J3 2.0204E+03 A 1.6107E+01 2.2999E+01 2.5855E+01 S 2.1783E+00 2.3659E+00 2.4804E+00 Z 2.662E+D0 3.2389E+00 3.5093E+00 GAME 7.4123E+01 7.6265E+01 7.7576E+01 U 4.8348E+01 9.6951E+00 9.9573E+00 SPECIES	MOVING SHOCK STANDING SHUCK REFLECTED SHOCK P 4.7594E+03
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MOVING SHOCK STANDING SHOCK - REFLECTED SHOCK P 4:24/1E+J3 4.2040E+04 6.1256E+04 T 1.3145E+02 2.1413E+02 2.4555E+02 RHO 1.2134E+J1 6.J617E+01 7.1036E+01 H 9.2028E+J2 1.6681E+J3 2.0204E+03 A 1.6107E+01 2.2999E+01 2.5855E+01 S 2.1738E+00 2.3659E+00 2.4804E+00 Z 2.6626E+U0 3.2389E+00 3.5093E+00 GAME 7.4123E+01 7.6265E+01 7.7576E+01 U 4.8348E+01 9.6951E+00 9.9573E+00 SPECIES	MOVING SHOCK STANDING SHUCK REFLECTED SHOCK P 4.7594E+03 4.6794E+04 6.8648E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.3315E+03 1.8685E+03 2.2683E+03 A 1.7143E+01 2.4573E+01 2.7563E+01 S 2.2552E+00 2.4509E+00 2.7505E+00 C 2 2.7964E+00 3.4104E+00 3.7012E+00 GAME 7.4585E-01 7.701E-01 7.7702E-01 U 5.1171E+01 1.0369E+01 1.0670E+01 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4:24/1E+J3 4:20+0E+04 6:1256E+04 T 1:3145E+02 2:1413E+02 2:4555E+02 RHO 1:2134E+J1 6:361FE+J1 7:1036E+J1 7:1036	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.7594E+03 4.6794E+04 6.8468E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.0315E+03 1.8685E+03 2.2683E+03 A 1.7143E+01 2.4573E+01 2.7563E+01 S 2.2552E+00 2.4509E+00 3.7012E+00 GAME 7.4585E+01 7.7011E+01 7.7702E-01 U 5.1171E+01 1.0369E+01 1.0670E+01 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4:24/1E+J3 4:2040E+04 6:1256E+04 7 1:3146E+02 2:1413E+02 2:4555E+02 RHO 1:2134E+J1 6:J617E+01 7:1036E+01 H 9:2028E+D2 1:6681E+J3 2:0204E+D3 A 1:6107E+01 2:2999E+01 2:5855E+D1 S 2:1743E+00 2:3659E+00 2:4804E+00 Z 2:6626E+D0 3:2389E+00 3:5093E+00 GAME 7:4123E+01 7:0265E+01 7:7576E+01 U 4:834BE+01 9:6951E+00 9:9573E+00 SPECIES SPEC	MOVING SHOCK STANDING SHUCK REFLECTED SHOCK P 4.7594E+03 4.6794E+04 6.8648E+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.3315E+03 1.8665E+03 2.2683E+03 2.2683E+03 2.2683E+03 2.2552E+00 2.4573E+01 2.7563E+01 2.7563E+01 2.7563E+01 2.7563E+01 2.7563E+01 2.7563E+01 2.7563E+01 2.7563E+01 2.1763E+01 2.1763E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4:24/1E+J3 4.2040E+04 6.1256E+04 T 1.3145E+02 2.1413E+02 2.4555E+02 RHO 1.2134E+J1 6.J617E+J1 7.1036E+J1 H 9.2028E+J2 1.6681E+J3 2.0204E+J3 A 1.6107E+J1 2.2999E+J1 2.5855E+J1 S 2.1783E+00 2.3659E+00 2.4804E+00 Z 2.6626E+JJ 7.5265E-JJ 7.7576E-JJ U 4.8348E+JJ 9.6951E+JJ 7.7576E-JJ U 4.8348E+JJ 9.6951E+JJ 7.526E-JJ 7.7576E-JJ A 3.1718E-JJ 7.526E-JJ 7.576E-JJ 7.756E-JJ 7.	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 4.7594E+03 4.6794E+04 6.8668+04 T 1.4090E+02 2.2991E+02 2.6416E+02 RHO 1.2080E+01 5.9679E+01 7.0028E+01 H 1.3315E+03 1.8685E+03 2.2683E+03 A 1.7143E+01 2.4573E+01 2.7563E+01 S 2.2552E+00 2.4573E+01 2.7563E+01 Z 2.7964E+00 3.4104E+00 3.7012E+00 GAME 7.4585E+01 7.7011E+01 7.7702E+01 U 5.1171E+01 1.3369E+01 1.0670E+01 SPECIES

P1 = 5	-00E+03 N/SQ-M	, US1 = 2.00E+0	3 M/SEC	P1 = 9	5.00E+03 N/SQ-M	, US1= 2.40E+0	D3 M/SEC
	MUNITAGE CHOCK	STANDING SHOCK	REFLECTED SHOCK		HOWEN'S CHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MUVING SHOCK 4.7899E+01	8.4638E+01	2.6321F+02		6.90702+01	1.2742E+02	3. 7566E+02
ĭ	1.28926+01	1.6278E+01	2.8875E+01	ŕ	1.8180F+01	2.3356E+01	3.6733E+01
	3.7155E+00	5.1997E+00	9.10445+00	RHO	3.7992E+00	5.4550E+00	1.00956+01
RHO H	1.2892E+01	1.6278E+31	2.9204E+01	H	1.81816+01	2.3386E+01	4.0413E+01
A	3.5905E+00	4.03445+00	5. 2146E+00	Ä	4.2630E+33	4.8097E+00	5.46465+00
Š	1.1166F+00	1.1172F+00	1.1324E+00	Š	1.1394E+00	. 1.1402E+00	1.15525+00
ž	1.0000E+00	1.0000E+00	1.0012E+00	ž	1.0000E+00	1.0001E+30	1.01306+00
GAME	1.0000£+00	9.9995E-01	9.4059E-01	GAME	9.9960E-01	9.9032E-01	8.9250E-01
U	4.53915+00	3.2320F+00	3.12105+00	U	5.4901 E+ 30	3.0115E+00	3.32926+00
Ū		31111111111		*			
SPECIES		- MOLE FRACTIONS		SPECIE	s	- MJLE FRACTIONS	S
E -	2.0843E-09	2.9201E-07	1.20115-03	£-	2.6472E-06	1.0950E-04	1.2333E-02
Δ '	1.00005+00	1.0000E+00	9.9760E-01	A	9.9999E-01		9.7433E-C1
. A+	2.0843E-09	2.9201E-07	1.2011E-03	A +		1.3950E-04	1.2833E-02
A++	7.2339E-34	3.9076E-27	4.4063E-14	A++	1.480 2F - 23		1.6261 5-10
A+++	3.71886-74	8.3352E-59	1.02 Z9E-32	A+++	1.07076-52	4.7565E-41	5.7532E-25
A++++	0.	j.	8.6399E-62	A++++	0.	8.72675-77	1.6066E-47
AV).	2.	2.	· AV	9.	0.	1.80176-77
AVI	o.	3.	0. -	AVI	J.	υ.	0.
IIVA	.9•	2.	0.	IIVA)•	0.	0.
IIIVA	o.	0.	9 •	IIIVA	o.	э.	0.
			•				
•				•			
			•				
P1 = 5	.GOE+03 N/SQ-M	. USI= 2.20E+03	B M/SEC	P1 = 5	5.J0E+03 N/SQ-M	, US1= 2.63E+0	D3 M/SEC
P1 = 5	.00E+03 N/SU-M	, US1= 2.20E+03	B M/SEC	P1 = 5	5.J0E+03 N/SQ-M	, US1= 2.63E+0	O3 M/SEC
P1 = 5				P1 = 5		*	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHUCK	STANDING SHUCK	REFLECTED SHOCK
ρ	MOVING SHOCK 5.8003E+01	STANDING SHOCK 1.0490E+02	REFLECTED SHOCK 3.1897E+02	P	MOVING SHUCK 8.1084E+01	STANDING SHUCK 1.5403E+J2	REFLECTED SHOCK
P T	MOVING SHOCK 5.8003E+01 1.5416E+01	STANDING SHOCK 1.0490E+02 1.9659E+01	REFLECTED SHOCK 3-1897E+02 3-3299E+01	Р Т	MOVING SHUCK 8.1084E+01 2.1176E+01	STANDING SHUCK 1.5403E+J2 2.7357E+J1	REFLECTED SHOCK 4.3437E+02 3.9481E+01
P T RHO	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00	REFLECTED SHOCK 3.1897E+02 3.3299E+01 9.5286E+00	P T RHO	MOVING SHUCK 8.1084E+01 2.1176E+01 3.8289E+00	STANDING SHOCK 1.5403E+J2 2.7357E+J1 5.6256E+JJ	REFLECTED SHOCK 4.3437E+02 3.9481E+01 1.0749E+01
P T RHO H	MOVING SHDCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01	REFLECTED SHOCK 3.1897E+02 3.3299E+01 9.5286E+00 3.4776E+01	Р Т RHO Н	MOVING SHUCK 10+3+801.8 10+3+711.5 00+3+881.5	STANDING SHOCK 1.5403E+02 2.7357E+01 5.6256E+00 2.7579E+01	REFLECTED SHOCK 4.3437E+02 3.9441E+01 1.0749E+01 4.6242E+01
P T RHO H	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+0C	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+00	REFLECTED SHOCK 3.1897E+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00	P T RHD H	MOVING SHUCK 8.1084E+01 2.1176E+01 3.0289E+00 2.1184E+01 4.5938E+00	STANDING SHUCK 1.5403E+J2 2.7357E+J1 5.6256E+J3 2.7579E+J1 5.1382E+O3	REFLECTED SHOCK 4.3437E+02 3.9441E+01 1.0749E+01 4.6242E+01 5.5774E+00
P T RHO H A S	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1284E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+00 1.1291E+00	REFLECTED SHOCK 3.1897E+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442E+30	P T RHO H A S	MOVING SHUCK 8.1084E+01 2.1176E+01 3.2289E+00 2.1184E+01 4.5938E+00 1.1497E+00	STANDING SHOCK 1.5403E+J2 2.7357E+J1 5.6256E+J3 2.757E+J1 5.1382E+J3 1.1506E+D3	REFLECTED SHOCK 4.3437E+02 3.9431E+01 1.0749E+01 4.0242E+01 5.5774E+00 1.1660E+00
P T RHO H A S	MOVING SHOCK 5.8003E+01 1.5416E+01 3.76224+00 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+02 1.1291E+03 1.0000E+00	REFLECTED SHOCK 3.1897E+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442E+J0 1.0053E+00	P T RHD H A S Z	MOVING SHUCK 8.1084E+01 2.1176E+01 3.0289E+00 2.1184E+01 4.5938E+00 1.1497E+0J 1.00J0E+00	STANDING SHUCK 1.5403E+J2 2.7357E+J1 5.6256E+J3 2.7579E+J1 5.1082E+J7 1.506E+J0 1.300E+J0	REFLECTED SHOCK 4.3437E+02 3.9481E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.023EE+00
P T RHO H A S Z GAME	MOVING SHOCK 5.80038+01 1.5416E+01 3.76242+00 1.5416E+01 3.92636+00 1.1284E+00 1.0000E+00 9.9998E-01	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+00 1.1291E+00 1.0000E+00 9.9893E-01	REFLECTED SHOCK 3.1897F+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442F+30 1.0053E+00 8.5987E-01	P T RHO H A S Z Game	MOVING SHUCK 8.1084E+01 2.1176E+01 3.4289E+03 2.1184E+01 4.5938E+00 1.1497E+03 1.0000E+03 9.9653E-01	STANDING SHUCK 1.5403E+J2 2.7357E+J1 5.6256E+JJ 2.7579E+J1 5.1382E+JJ 1.1506E+00 1.JUBE+00 9.5304E-J1	REFLECTED SHOCK 4.3437E+02 3.9481E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.0236E+00 7.6977E-01
P T RHO H A S	MOVING SHOCK 5.8003E+01 1.5416E+01 3.76224+00 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+02 1.1291E+03 1.0000E+00	REFLECTED SHOCK 3.1897E+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442E+J0 1.0053E+00	P T RHD H A S Z	MOVING SHUCK 8.1084E+01 2.1176E+01 3.0289E+00 2.1184E+01 4.5938E+00 1.1497E+0J 1.00J0E+00	STANDING SHUCK 1.5403E+J2 2.7357E+J1 5.6256E+J3 2.7579E+J1 5.1082E+J7 1.506E+J0 1.300E+J0	REFLECTED SHOCK 4.3437E+02 3.9481E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.023EE+00
P T RHO H A S Z GAME U	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1284E+00 1.000UE+00 9.9998E-01 5.0154E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+09 1.1291E+00 1.0000E+00 9.9493E-01 3.5243E+00	REFLECTED SHOCK 3.1897F+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442F+30 1.0053E+00 8.5982E-01 3.2824F+00	P T RHO H A S Z Gaye U	MOVING SHUCK 8.1084E+01 2.1176E+01 3.0289E+03 2.1184E+01 4.5938E+00 1.1497E+00 1.0000E+00 9.9653E-01 5.9622E+00	STANDING SHOCK 1.5403E+32 2.7357E+31 5.62562+33 2.7579E+91 5.1382E+99 1.1506E+00 1.308E+00 9.5304E-31 4.0451E+30	REFLECTED SHOCK 4.3437E+02 3.9481E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.023EE+00 7.6977E-01 3.3231E+00
P T RHO H A S Z GAME	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1284E+00 1.000UE+00 9.9998E-01 5.0154E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+00 1.1291E+00 1.0000E+00 9.9893E-01	REFLECTED SHOCK 3.1897F+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442F+30 1.0053E+00 8.5982E-01 3.2824F+00	P T RHO H A S Z Game	MOVING SHUCK 8.1084E+01 2.1176E+01 3.0289E+03 2.1184E+01 4.5938E+00 1.1497E+00 1.0000E+00 9.9653E-01 5.9622E+00	STANDING SHUCK 1.5403E+J2 2.7357E+J1 5.6256E+JJ 2.7579E+J1 5.1382E+JJ 1.1506E+00 1.JUBE+00 9.5304E-J1	REFLECTED SHOCK 4.3437E+02 3.9481E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.023EE+00 7.6977E-01 3.3231E+00
P T RHO H A S Z GAME U	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00 9.9998E-01 5.0154E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+00 1.1291E+00 1.0000E+00 9.9893E-01 3.5243E+00 MOLE FRACTIONS 8.3660E-06	REFLECTED SHOCK 3.1897F+02 3.3299E+01 9.5286E+00 3.4776E+01 5.365UE+00 1.1442F+30 1.0053E+00 8.5982E-01 3.2824F+00	P T RHO H A S Z GAME U SPECIES	MOVING SHUCK 8.1084E+01 2.1176E+01 3.0289E+03 2.1184E+01 4.5938E+00 1.1497E+03 1.0030E+03 9.9653E-01 5.9622E+00	STANDING SHUCK 1.5403E+32 2.7357E+31 5.6256E+30 2.7579E+91 5.1082E+00 1.1506E+00 1.0308E+00 9.5304E-31 4.0451E+30 	REFLECTED SHOCK 4.3437E+02 3.94d1E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.023EE+00 7.6977E-01 3.3231E+00
P T RHO H A S Z GAME U	MOVING SHOCK 5.8003E+01 1.5416E+01 3.762&+06 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00 9.9998E-01 5.0154E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+00 1.1291E+00 1.0000E+00 9.9893E-01 3.5243E+00 - MOLE FRACTIONS 8.3660E-06 9.9998E-01	REFLECTED SHOCK 3.1897E+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442E+30 1.0053E+00 8.5982E-01 3.2824E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHUCK 8.1084E+01 2.1176E+01 3.2289E+03 2.1184E+01 4.5938E+00 1.1497E+00 1.0000E+00 9.9653E-01 5.9622E+00	STANDING SHOCK 1.5403E+32 2.7357E+31 5.62562+33 2.7579E+01 5.1382E+03 1.1506E+00 1.3008E+00 9.5304E-31 4.0451E+30 - MOLE FRACTIONS 8.1749E-34 9.9837E-01	REFLECTED SHOCK 4.3437E+02 3.94d1E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.0236E+00 7.6977E-01 3.3231E+00 2.3316E-02 9.5397E-01
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00 9.9998E-01 5.0154E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+00 1.1291E+00 1.0000E+00 9.9893E-01 3.5243E+00 MOLE FRACTIONS 8.3660E-06	REFLECTED SHOCK 3.1897F+02 3.3299E+01 9.5286E+00 3.4776E+01 5.365UE+00 1.1442F+30 1.0053E+00 8.5982E-01 3.2824F+00	P T RHO H A S Z GAME U SPECIES	MOVING SHUCK 8.1084E+01 2.1176E+01 3.0289E+03 2.1184E+01 4.5938E+00 1.1497E+03 1.0030E+03 9.9653E-01 5.9622E+00	STANDING SHUCK 1.5403E+32 2.7357E+31 5.6256E+30 2.7579E+91 5.1082E+00 1.1506E+00 1.0308E+00 9.5304E-31 4.0451E+30 	REFLECTED SHOCK 4.3437E+02 3.94d1E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.023EE+00 7.6977E-01 3.3231E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 5.8003E+01 1.5416E+01 3.762&+06 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00 9.9998E-01 5.0154E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+00 1.1291E+00 1.000E+00 9.9893E-01 3.5243E+00 MOLE FRACTIONS 8.3660E-06 9.9998E-01 8.3660E-06 1.1669E-21	REFLECTED SHOCK 3.1897E+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442E+30 1.0053E+00 8.5982E-01 3.2824E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHUCK 8.1084E+01 2.1176E+01 3.2289E+03 2.1184E+01 4.5938E+00 1.1497E+00 1.0000E+00 9.9653E-01 5.9622E+00	STANDING SHUCK 1.5403E+32 2.7357E+31 5.6256E+30 2.7579E+01 5.1082E+00 1.1506E+00 1.3008E+00 9.5304E-31 4.0451E+30 - MOLE FRACTIUNS 8.1749E-04 9.9837E-01 8.1749E-04 6.3C77E-15	REFLECTED SHOCK 4.3437E+02 3.94d1E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.0236E+00 7.6977E-01 3.3231E+00 2.3316E-02 9.5397E-01
P T RHO H A S Z GAME U SPECIES E-A A+	MOVING SHOCK 5.80038+01 1.5416E+01 3.76242+00 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00 9.9998E-01 5.0154E+00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+09 1.1291E+03 1.000E+00 9.9493E-01 3.5243E+00 MOLE FRACTIONS 8.3660E-06 9.9998E-01 8.3660E-06 1.1669E-21 2.9101E-49	REFLECTED SHOCK 3.1897F+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442F+00 1.0053E+00 8.5987E-01 3.2824F+00 5.2762E-03 9.8945E-01 5.2762E-03	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHUCK 8.1084E+01 2.1176E+01 3.4289E+03 2.1184E+01 4.5938E+00 1.1497E+03 1.0000E+00 9.9653E-01 5.9622E+00	STANDING SHUCK 1.5403E+J2 2.7357E+J1 5.6256E+J3 2.7579E+J1 5.1382E+J9 1.1506E+00 1.308E+00 9.5304E-J1 4.0451E+J0 - MOLE FRACTIUNS 8.1749E-J4 9.9837E-J1 8.1749E-O1	REFLECTED SHOCK 4.3437E+02 3.9481E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.0236E+00 7.6977E-01 3.3231E+00 2.3316E-02 9.5397E-01 2.3316E-02
P T RHO H A S Z GAME U SPECIES E-A A+A++	MOVING SHOCK 5.80038+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00 9.9998E-01 5.0154E+00 1.1655E-07 1.1655E-07 3.4684E-28 1.3257E-63	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+09 1.1291E+00 1.0000E+00 9.9993E-01 3.5243E+00 MOLE FRACTIONS 8.3660E-06 9.9998E-01 8.3660E-06 1.1669E-21 2.9101E-49 0.	REFLECTED SHOCK 3.1897F+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442F+30 1.0053E+00 8.5982E-01 3.2824F+00 5.2762E-03 9.8945E-01 5.2762E-03 7.2877E-12 6.5093E-28 4.6618E-53	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	MOVING SHUCK 8.1084E+01 2.1176E+01 3.4289E+03 2.1184E+01 4.5938E+00 1.1497E+0J 1.00J0E+03 9.9653E-01 5.9622E+00 3.1722E-J5 9.9994E-C1 3.1722E-J5 9.1541E-20 3.0d66E-45	STANDING SHOCK 1.5403E+J2 2.7357E+J1 5.6256E+JJ 2.7579E+J1 5.1382E+JJ 1.1506E+00 1.1506E+00 9.5304E-J1 4.0451E+JD - MOLE FRACTIUNS 8.1749E-J4 9.9837E-J1 8.1749E-J4 6.3C77E-I5 1.8906E-34 1.424E-65	REFLECTED SHOCK 4.3437E+02 3.9481E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.023EE+00 7.6977E-01 3.3231E+00 2.3016E-02 9.5397E-01 2.3016E-02 1.2954E-09 5.3731E-02 6.709E-44
P T RHO H A S Z GAME U SPECIES E-A A+A++++A++++ A++++ AV	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00 9.9998E-01 5.0154E+00 1.1655E-07 1.4655E-07 3.4684E-28 1.3257E-63 0.	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+09 1.1291E+00 1.0000E+00 9.9893E-01 3.5243E+00 MOLE FRACTIONS 8.3660E-06 9.9998E-01 8.3660E-06 1.1669E-21 2.9101E-49 0.	REFLECTED SHOCK 3.1897E+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442E+J0 1.0053E+00 8.5982E-01 3.2824F+00 5.2762E-03 9.8945E-01 5.2762E-03 7.2877E-12 6.5090E-28 4.6418E-53 4.5820F-86	P T RHO H A S Z GAME U SPECIES E-A A++++++++++++++++++++++++++++++++++	MOVING SMUCK 8.1084E+01 2.1176E+01 3.0289E+00 2.1184E+01 4.5938E+00 1.1497E+00 1.0000E+00 9.9653E-01 5.9622E+00 3.1722E-05 9.9994F-C1 3.1722E-05 9.1541E-20 3.0366E-45	STANDING SHUCK 1.5403E+32 2.7357E+31 5.6256E+30 2.7579E+01 5.1082E+00 1.1506E+00 1.3008E+00 9.5304E-31 4.0451E+30 - MOLE FRACTIUNS 8.1749E-04 9.9837E-01 8.1749E-04 0.3C77E-15 1.8906E-34 1.4244E-65 0.	REFLECTED SHOCK 4.3437E+02 3.9481E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.0236E+00 7.6977E-01 3.3231E+00 2.3316E-02 9.5397E-01 2.3316E-02 1.2954E-09 5.3731E-23 6.7009E-44 9.4515E-72
P T RHO H A S Z GAME U SPECIES E- A A+ A++++ A++++	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00 9.999E-01 5.0154E+00 1.1655E-07 3.4684E-28 1.3257E-63 0.0.	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+00 1.1291E+00 1.1291E+00 3.5243E+00 MOLE FRACTIONS 8.3660E-06 9.9998E-01 8.3660E-06 1.1669E-21 2.9101E-49 0. 0.	REFLECTED SHOCK 3.1897F+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442F+30 1.0053E+00 8.5982E-01 3.2824F+00 5.2762E-03 9.8945E-01 5.2762E-03 7.2877E-12 6.5093E-28 4.6618E-53	P T RHO H A S Z GAME U SPECIES E-A A++++++++++++++++++++++++++++++++++	MOVING SHUCK 8.1084E+01 2.1176E+01 3.4289E+03 2.1184E+01 4.5938E+00 1.1497E+03 1.0000E+03 9.9653E-01 5.9622E+00 3.1722E-05 9.9994F-C1 3.1722E-05 9.1541E-20 3.0866E-45 3.	STANDING SHUCK 1.5403E+J2 2.7375TE+J1 5.6256E+J0 2.7579E+J1 5.1082E+00 1.1506E+00 1.0008E+00 9.5304E-J1 4.0451E+J0 - MOLE FRACTIUNS 8.1749E-J4 9.837E-J1 8.1749E-J4 6.3C77E-J5 1.8906E-34 1.4244E-65 0.	REFLECTED SHOCK 4.3437E+02 3.9481E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.023EE+00 7.6977E-01 3.3231E+00 2.3016E-02 9.5397E-01 2.3016E-02 1.2954E-09 5.3731E-02 6.709E-44
P T RHO H A S Z GAME U SPECIES E-A A+A++++A++++ A++++ AV	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00 9.9998E-01 5.0154E+00 1.1655E-07 1.0000E+01 1.1655E-07 3.4684E-28 1.3257E-63 0.00	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+09 1.1291E+00 1.0000E+00 9.9493E-01 3.5243E+00 MOLE FRACTIONS 8.3660E-06 9.9998E-01 8.3660E-06 1.1669E-21 2.9101E-49 0. 0. 0.	REFLECTED SHOCK 3.1897F+02 3.3299E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442F+30 1.0053E+00 8.5982E-01 3.2824F+00 5.2762E-03 9.8945E-01 5.2762E-03 7.2877E-12 6.5093E-28 4.6618E-53 4.5820F-86 0.	P T RHO H A S Z GAME U SPECIES E-A A+A++A+++AV AVI AVII	MOVING SHUCK 8.1084E+01 2.1176E+01 3.0289E+03 2.1184E+01 4.5938E+00 1.1497E+00 1.0000E+00 9.9653E-01 5.9622E+00 3.1722E-05 9.9994E-C1 3.1722E-05 9.1541E-20 3.0866E-45 0.0	STANDING SHUCK 1.5403E+32 2.7357E+31 5.6256E+30 2.7579E+01 5.1382E+00 1.1506E+00 1.3008E+00 9.5304E-31 4.0451E+30 - MOLE FRACTIUNS d.1749E-04 9.9837E-01 8.1749E-04 6.3C77E-15 1.8906E-34 1.4244E-65 0.0.0	REFLECTED SHOCK 4.3437E+02 3.94d1E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.023EE+00 7.6977E-01 3.3231E+00
P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++ AV I	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1284E+00 1.0000E+00 9.999E-01 5.0154E+00 1.1655E-07 3.4684E-28 1.3257E-63 0.0.	STANDING SHOCK 1.0490E+02 1.9659E+01 5.3359E+00 1.9661E+01 4.4314E+00 1.1291E+00 1.1291E+00 3.5243E+00 MOLE FRACTIONS 8.3660E-06 9.9998E-01 8.3660E-06 1.1669E-21 2.9101E-49 0. 0.	REFLECTED SHOCK 3.1897E+02 3.294E+01 9.5286E+00 3.4776E+01 5.3650E+00 1.1442E+30 1.0053E+00 8.5987E-01 3.2824E+00 5.2762E-03 9.8945E-01 5.2762E-03 7.2877E-12 6.50995-28 4.6618E-53 4.5820F-86 0.	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV AVI AVII	MOVING SHUCK 8.1084E+01 2.1176E+01 3.4289E+03 2.1184E+01 4.5938E+00 1.1497E+03 1.0000E+03 9.9653E-01 5.9622E+00 3.1722E-05 9.9994F-C1 3.1722E-05 9.1541E-20 3.0866E-45 3.	STANDING SHUCK 1.5403E+J2 2.7375TE+J1 5.6256E+J0 2.7579E+J1 5.1082E+00 1.1506E+00 1.0008E+00 9.5304E-J1 4.0451E+J0 - MOLE FRACTIUNS 8.1749E-J4 9.837E-J1 8.1749E-J4 6.3C77E-J5 1.8906E-34 1.4244E-65 0.	REFLECTED SHOCK 4.3437E+02 3.9441E+01 1.0749E+01 4.6242E+01 5.5774E+00 1.1660E+00 1.0236E+00 7.6977E-01 3.3231E+00 2.3316E-02 9.5397E-01 2.3316E-02 1.2954E-09 5.3731E-23 6.7J09E-44 9.4515E-72 0.

	5.00E+03 N/SQ-N	ls. US1= 2.80E+0	3 M/SEC	P1 = 5	5.00E+03 N/SQ-M	US1= 3.20E+0	3 M/SEC
		•					•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
. р	9.4190E+01	1.9071E+02	4. 9780E+02	P	1.2447E+02	3.0230E+02	6.6007E+02
ī	2.4379E+01	3.1561E+01	4.1822E+01	ŕ	3.07898+01	3.8636E+01	4.5974E+01
RHO	3.8627E+00	6.0194E+00	1.1485E+01	RHO	4.3279E+00	7.6465E+00	1.34366+01
H	2.4441E+01	3.2631E+01	5.2403E+01	н	3.1794E+01	4.5260E+01	6.63898+01
Ä	4.8925E+00	5.2694E+00	5.7037E+00	A	5.2063E+00	5.5091E+00	5.9901E+00
ŝ.	1.1593E+00	1.1605E+00	1.1770E+00	ŝ	1.17728+00	1.18C 2E+00	1.20016+00
ž	1.0002E+00	1.0039E+00	1.0364E+00	ž	. 1.0037E+00	1.0232E+00	1.06858+00
GAME	9.8163E-01	8.7639E-01	7.5056E-01	GAME	8.77156-01	7.67716-01	7.3040E-01
U	6.4424E+00	4.1151E+00	3.2891E+00	U	7.4687E+00	3.9220E+00	3.2137E+00
	0.11212.03	4.11516400	3.28712.400		12 4001 2 400	3. 72202 400	3.21316400
SPEC IE	s	- MOLE FRACTIONS		SPEC IES	s	- MOLE FRACTIONS	
	,						
E-	2.3226E-04		3.5128E-02	E-	3.6384E-03	2.2694E-02	6-4145E-02
A	9.9954E-01	9.9228E-01	9.2974E-01	Α ,	9.9272E-01	9.5461E-01	8-7171E-01
Δ+ .	2.3226E-04	3.8607E-03	3.5128E-02	A +	3.63845-03	2.2694E-02	6.4145E-02
A++	8.4784E-17	1.8009E-12	6.0156E-09	A++	1.1005E-12	9.7127E-10	5.9024E-08
A+++	7.5930E-39	2.3493E-29	1.5760E-21	A+++	5.8363E-30	2.3027E-23	2.5387E-19
A++++	2.2819E-73	. 8.3858E-56	3.3967E-41	A+++	6.1522E-58	1.1001E-44	4.1163E-37
AV	o	0.	1.8821E-67	AV	.0•	4.1975E-73	6.0356E-61
AVI	0.	0.	0.	AVI	0.	0.	5.6725E-91
IIVA	0.	0.	0.	liva	o.	0.	0.
IIIVA	0.	0.	0.	IIIVA	0.	0.	0.
			•				
			•				
-							
	5.00E+03 N/SQ-N			01 - 1	5 005±03 N/CO W	, US1= 3.40E+0	2 4/556
P1 - :	3.00E+03 N/3Q-M	. US1= 3.03E+0	13 M/SEC	P1 + :	3.00E+03 N/3Q-M	, USI= 3.40E+C	13 H/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK
P	1.0852E+02	STANDING SHOCK 2.3927E+02	REFLECTED SHOCK 5.7001E+02	ρ	MDVING SHUCK -1.4230E+32	STANDING SHOCK 3.8106E+02	REFLECTED SHOCK 7.7567E+02
T		2.3927E+02		T			
T RHO	1.0852E+02	2.3927E+02 3.5368E+01	5.7001E+02 4.3935E+01		1.4230E+32	3.8106E+02	7.7567E+02
T	1.0852E+02 2.7661E+01	2.3927E+02 3.5368E+01 6.6898E+00	5.7001E+02	T	1.4230E+J2 3.3555E+01	3.8106E+02 4.1473E+01	7.7567E+02 4.8010E+01
T RHO	1.0852E+02 2.7661E+01 3.9187E+00	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01	5.7001E+02 4.3935E+01 1.2341E+01	T RHD	1.4230E+32 3.3555E+01 4.2046E+00	3.8106E+02 4.1473E+01 8.8456E+00	7.7567E+02 4.8010E+01 1.4847E+01
T RHO H	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00	5.7001E+02 4.3935E+01 1.2341E+01 5.9030E+01	T RHO H	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01	7.7567E+02 4.8010E+01 1.4847E+01 7.4632E+01
T RHO H A	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00	5-7301E+02 4-3935E+01 1-2341E+01 5-9030E+01 5-8405E+00 1-1883E+00	T RHO H A	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00	7.7567E+02 4.8010E+01 1.4847E+01 7.4632E+01 6.1533E+00
T RHO H A S	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+00	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 1.0113E+00	5.7301E+02 4.3935E+01 1.2341E+01 5.9030E+01 5.8405E+00	T RHO H A S	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00	7.7567E+02 4.8010E+01 1.4847E+01 7.4632E+01 6.1533E+00 1.2123E+00
T RHO H A S	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+30 1.0011E+00	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00	5.7301E+02 4.3935E+01 1.2341E+01 5.9030E+01 5.8405E+00 1.1883E+00 1.0513E+00	T RHD H A S	1.4230E+02 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+00 1.0086E+00	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00 1.0387E+00	7.7567E+02 4.8010E+01 1.4847E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00
T RHO H A S Z Game	1.0852E+02 2.7661E+01 3.9187E+00 2.7765E+01 5.1021E+00 1.1684E+00 1.0011E+00 9.4003E-01	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 1.0113E+00 8.0767E-01	5.7301E +02 4.3935E +01 1.2341E +01 5.9030E +01 5.8405E +00 1.1883E +00 1.0513E +00 7.3850E -01	T RHD H A S Z GAME	1.4230E+02 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+00 8.2049E+01	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00 1.0387E+00 7.4625E-01	7.7567E+02 4.8010E+01 1.4847E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01
T RHO H A S Z Game	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+00 1.0011E+00 9.4003E-01 6.9372E+00	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 1.0113E+00 8.0767E-01	5.7301E +02 4.3935E +01 1.2341E + 01 5.9030E +01 5.8405E +00 1.1883E +00 1.0513E +00 7.3850E -01 3.2485E +00	T RHD H A S Z GAME	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0 1.0046E+00 8.2049E-01 8.0445E+00	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00 1.0387E+00 7.4625E-01	7.7567E+02 4.8010E+01 1.4047E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01 3.1907E+00
T RHO H A S Z GAME U	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+00 1.0011E+00 9.4003E-01 6.9372E+00	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 1.0113E+00 8.0767E-01 4.0513E+00	5.700E+02 4.3935E+01 1.234E+01 5.9030E+01 5.8405E+00 1.1883E+00 1.0513E+00 7.3850E-01 3.2485E+00	T RHD H A S Z GAME U	1.4230E+32 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+30 1.0086E+00 8.2049E-01 8.0445E+00	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00 7.4625E-01 3.8093E+00	7.7567E+02 4.8010E+01 1.4847E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01 3.1907E+00
T RHO H A S Z GAME U SPECIES	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+00 1.0011E+00 9.4003E-01 6.9372E+00	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 8.0767E-01 4.0513E+00	5.7301E +02 4.3935E +01 1.2341E + 01 5.9030E +01 5.8405E +00 1.1883E +00 1.0513E +00 7.3850E -01 3.2485E +00 4.8812E -02	T RHO HA S Z GAME U SPECIE:	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0 1.0046E+00 8.2049E-01 8.0445E+00	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1987E+00 7.4625E-01 3.8093E+00	7.7567E+02 4.8010E+01 1.4047E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01 3.1907E+00
T RHO H A S Z GAME U SPECIES	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+00 9.4003E-01 6.9372E+00	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 8.0767E-01 4.0513E+00	5.7001E+02 4.3935E+01 1.2341E+01 5.9030E+01 5.8405E+00 1.1883E+00 1.0513E+00 7.3850E+01 3.2485E+00	T RHD HH A S Z GAME U SPECIE:	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0 1.0086E+00 8.2499E-01 8.0445E+00	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00 7.4625E-01 3.8093E+00	7.7567E+02 4.8010E+01 1.4847E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01 3.1907E+00
T RHO H A S Z GAME U SPECIES	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+00 1.0011E+00 9.4003E-01 6.9372E+00	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 1.0113E+00 8.0767E-01 4.0513E+00	5.7301E +02 4.3935E +01 1.2341E + 01 5.9030E +01 5.9030E +01 1.883E +00 1.0513E +00 7.3850E -01 3.2485E +00 4.8812E -02 9.0238E -01 4.8812E -02	T RHD H A S Z GAME U SPECIE:	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0 1.0046E+00 8.2049E-01 8.0445E+00	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00 1.0387E+00 7.4625E-01 3.8093E+00	7.7567E+02 4.8010E+01 1.4047E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01 3.1907E+00 8.1049E-02 8.3790E-01 8.1048E-02
T RHO H A S Z GAME U SPECIES	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+00 9.4003E-01 6.9372E+00	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 8.0767E-01 4.0513E+00	5.7301E+02 4.3935E+01 1.2341E+01 5.9030E+01 5.8405E+00 1.1883E+00 1.3513E+00 7.3850E-01 3.2485E+00 4.8812E-02 9.0238E-01 4.8812E-02 2.0534E-08	T RHD H A S Z GAME U SPECIE: E- A A+ A+	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0 1.0046E+00 8.2049E-01 8.0445E+00 S 4.5254E-J3 9.8295E-01 8.5254E-03 2.1397E-11	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1980E+00 7.4625E-01 3.8093E+00 	7.7567E+02 4.8010E+01 1.4047E+01 7.4032E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01 3.1907E+00 8.1049E-02 8.3790E-01 8.1048E-02 1.5148E-02
T RHO H A S Z Z GAME U SPECIE: E - A - A + + A + + + A + + + + + + + + +	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+00 9.4003E-01 6.9372E+00 5 	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 8.0767E-01 4.0513E+00	5.7001E+02 4.3935E+01 1.2341E+01 5.9030E+01 5.8405E+00 1.1883E+00 1.0513E+00 7.3850E+01 3.2485E+00 4.8812E+02 9.0238E+01 4.8812E+02 2.0534E+08 2.3955E+20	T RHD H A A S Z GAME U SPECIE: E - A A + A + + A + + + A + + + + + + + +	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.185E+J0 1.0086E+00 8.2049E-01 8.0445E+00 S 3.5254E-J3 9.8295E-01 8.5254E-03 2.1397E-11 4.0771E-27	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00 7.4625E-01 3.8093E+00	7.7567E+02 4.8010E+01 1.4947E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01 3.1907E+00 8.1049E-02 8.3790E-01 8.1048E-02 1.5148E-07 2.1377E-18
T RHO H A S Z GAME U SPECIE:	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+30 1.0011E+00 9.4003E-01 6.9372E+00 5 	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 1.0113E+00 8.0767E-01 4.0513E+00	5.7301E +02 4.3935E +01 1.2341E + 01 5.9030E +01 5.9030E +01 1.883E +00 1.0513E +00 7.2835E -01 3.2485E +00 4.8812E -02 9.0238E -01 4.8812E -02 2.0534E -08 2.3955E -20 5.2094E -39	T RHO H A S Z GAME U SPECIE:	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0 1.0086E+00 8.2099E-01 8.0445E+00 S 3.5254E-J3 9.8295E-01 8.5254E-J3 2.1397E-11 4.0771E-27 1.0258E-51	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00 1.0387E+00 7.4625E-01 3.8093E+00 	7.7567E+02 4.8010E+01 1.4047E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01 3.1907E+00 8.1049E-02 8.3790E-01 6.1048E-02 1.5148E-07 2.1377E-18 2.1820E-35
T RHO H A S Z GAME U SPECIE: E-A A++ A+++ A++++ A++++ A++++ A++++ A+++++ A++++++	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+00 1.0011E+00 9.4003E-01 6.9372E+00 5 	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 8.0767E-01 4.0513E+00	5.7301E+02 4.3935E+01 1.2341E+01 5.9030E+01 5.8405E+00 1.1883E+00 1.3513E+00 7.3850E-01 3.2485E+00 4.8812E-02 9.0238E-01 4.8812E-02 2.0534E-08 2.3955E-20 5.2094E-39 5.8631E-64	T RHD H A S Z GAME U SPECIE: E-A A+A++A+++A+++AV	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0 1.0086E+00 8.2049E+01 8.0445E+00 S 8.5254E-J3 9.8295E-01 8.5254E-O3 2.1397E-11 4.0771E-27 1.0258E-51 2.5717E-84	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.0387E+00 7.4625E-01 3.8093E+00 3.7282E-02 9.2544E-01 3.7282E-02 6.1948E-09 1.4196E-21 2.3185E-41 8.5165E-68	7.7567E+02 4.8010E+01 1.4047E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01 3.1907E+00 8.1049E-02 8.3790E-01 8.1048E-02 1.5148E-07 2.1377E-18 2.1820E-35 3.5868E-58
T RHO H A S Z GAME U SPECIE: E - A A + A + A + + A + + + A A V I	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.0011E+00 9.4003E-01 6.9372E+00 5 	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 8.0767E-01 4.0513E+00	5. 7301E +02 4. 3935E +01 1. 234 1E + 01 5. 9030E +01 5. 9030E +01 6. 8405E +00 1. 1883E +00 1. 0513E +00 7. 3850E -01 3. 2485E +00 4. 8812E -02 9. 0238E -01 4. 8812E -02 2. 0534E -08 2. 3955E -20 5. 2094E -39 5. 8631E -64 0.	T RHO H A S Z GAME U SPECIE: E - A A + A + + A + + + A V AVI	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0 1.0086E+00 8.2049E+01 8.0445E+00 S 8.5254E-J3 9.8295E-01 9.8254E-O3 2.1397E-11 4.0771E-27 1.0258E-51 2.5717E-84 J.	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00 7.4625E-01 3.8093E+00	7.7567E+02 4.8010E+01 1.4847E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.082E+00 7.2473E-01 3.1907E+00 8.1049E-02 8.3790E-01 8.1048E-02 1.5148E-07 2.1377E-18 2.1820E-35 3.5868E-58 2.9138E-87
T RHO H A S Z GAME U SPECIE: E- A + A++ A+++ AV AVI AVII	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.1684E+00 1.0011E+00 9.4003E-01 6.9372E+00 5	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.0113E+00 8.0767E-01 4.0513E+00	5.7301E +02 4.3935E +01 1.2341E + 01 5.9030E +01 5.9030E +01 1.1883E +00 1.0513E +00 7.3850E -01 3.2485E +00 4.8812E -02 9.0238E -01 4.8812E -02 2.0534E -08 2.3955E -20 5.2094E -39 5.8631E -64 0.0	T RHO H A S Z GAME U SPECIE: E- A A++ A+++ A+++ AV AVI AVII	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0 1.0046E+00 8.2049E-01 8.0445E+00 S 3.5254E-J3 9.8295E-01 8.5254E-J3 9.8295E-01 4.0771E-27 1.0258E-51 2.5717E-84 J.	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+30 1.1906E+90 1.0387E+00 7.4625E-01 3.8093E+00 	7.7567E+02 4.8010E+01 1.4047E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.0882E+00 7.2473E-01 3.1907E+00 8.1049E-02 8.3790E-01 8.1048E-02 1.5148E-07 2.1377E-18 2.1820E-35 3.5868E-58 2.9138E-87 0.
T RHO H A S Z GAME U SPECIE: E - A A + A + A + + A + + + A A V I	1.0852E+02 2.7661E+01 3.9187E+00 2.7965E+01 5.1021E+00 1.0011E+00 9.4003E-01 6.9372E+00 5 	2.3927E+02 3.5368E+01 6.6898E+00 3.8536E+01 5.3747E+00 1.1703E+00 8.0767E-01 4.0513E+00	5. 7301E +02 4. 3935E +01 1. 234 1E + 01 5. 9030E +01 5. 9030E +01 6. 8405E +00 1. 1883E +00 1. 0513E +00 7. 3850E -01 3. 2485E +00 4. 8812E -02 9. 0238E -01 4. 8812E -02 2. 0534E -08 2. 3955E -20 5. 2094E -39 5. 8631E -64 0.	T RHO H A S Z GAME U SPECIE: E - A A + A + + A + + + A V AVI	1.4230E+J2 3.3555E+01 4.2046E+00 3.5949E+01 5.2712E+00 1.1858E+J0 1.0086E+00 8.2049E+01 8.0445E+00 S 8.5254E-J3 9.8295E-01 9.8254E-O3 2.1397E-11 4.0771E-27 1.0258E-51 2.5717E-84 J.	3.8106E+02 4.1473E+01 8.8456E+00 5.2684E+01 5.6699E+00 1.1906E+00 7.4625E-01 3.8093E+00	7.7567E+02 4.8010E+01 1.4847E+01 7.4632E+01 6.1533E+00 1.2123E+00 1.082E+00 7.2473E-01 3.1907E+00 8.1049E-02 8.3790E-01 8.1048E-02 1.5148E-07 2.1377E-18 2.1820E-35 3.5868E-58 2.9138E-87

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	MOUTING CORES		DEST SCATE SUDGE			
		STANDING SHOCK	REFLECTED SHOCK			REFLECTED SHOCK
Р	1.6197E+02	4.7663E+02	9.1961E+02	P 2.0613E+02	7.2623E+02	1.2909E+03
Τ	3.5925E+01	4.4012E+01	5.0045E+01	T 3.9768E+01	4.8573E+01	5.4042E+01
RHO	4.4377E+00	1.0246E+01	1.6554E+01	RHO 5.0009E+00	1.3599E+01	2.0617E+01
H	4.0417E+01	6.0726E+01	8.3739E+01	H 5.0206E+01	7.8635E+01	1.0413E+02
A	5.3461E+JO	.5.8437E+00	6.3271E+00	A 5.5388E+00	6.2090E+00	6.6921E+00
s ·	· 1.1946E+00	1.2015E+00	1.2251E+00	\$ 1.2130E+00	1.2252E+00	1.2526E+00
Z	1.0160E+00	1.0569E+00	1.1100E+00	Z 1.0365E+00	1.0994E+00	1.1587E+00
GAME	7.8307E-01	7.3412E-01	7.2064E-01	GAME 7.4427F-01	7.2190E-01	7.1520E-01
U.	8.6552E+00	3.7397E+00	13.18035+00	U 9.9269E+00	3.6409E+00	3.1843E+00
SPEC LE	s - '	- MOLE FRACTIONS		SPECIES	- MOLE FRACTIONS	
	+					
E -	1.5724E-02	5.3847E-02		E- 3.5190E-02	9.0426E-02	1.3694E-01
Δ	9.6855E-01	8.9231E-01	8.0173E-01	A 9.2962E-01	*8.1915E-01	7.2612E-01
A+ , :-		5.3847E-02	9.9134E-02	A+ 3.5190E-02	9.0426E-02	1.3694E-01
A++ -		: 2.5749E-08	3.5362E-07	A++ 3.3880E-09	2.1621E-07	1.5074E-06
A+++ .	4.4736E-25	3.4885E-20	1.4803E-17	A+++ 2.6665E-22	4:4276E-18	4.2260E-16
A++++	5.7557E-48	9.1143E-39	8.0894E-34	A++++ 7.5449E-43	7.7788E-35	4.3962E-31
AV	2.2277E-78	1.29468-63	1.1635E-55	AV 3.0769E-70	2:5526E-57	3.1872E-51
AVI	· .	. 0.	1.1822E-83	AVI O.	4.8369E-86	6.7588E-77
IIVA	0.	- a.	0.	AVII O.	3.	0.
AVIII	.0.	0.	0.	AVIII O.	0.	0.
~****	1.5.	• •		******		••
						•
			•			
					-	
01 -	5 005+03:N/CO-M	US1- 3 405+0) H/650'	D1 - 5 005 03 8/5 1		
P1 -	3.005402 W.26-W	. US1= 3.80E+0	3 M/SEC	P1 = 5.00E+03 N/SQ-M	US1= 4.20E+0	13 M/SEC
	MOVING SHOCK	CTANDING CHOCK	BEEL FOTED CHOCH	MONTHS SUGGE	erabathe euges	REFLECTÈD SHOCK
-			REFLECTED SHOCK	MOVING SHOCK P 2,3037F+02	STANDING SHOCK	
P	1.8330E+02	5.9228E+02	1.0915E+03		8.8034E+02	1.5176E+03
T	3.7968E+01	4.6371E+01	5-2057E+01	T. 4.1389E+01	5.0669E+01	5.5998E+01.
RHU	4.70alE+00	1.1855E+01	1.84965+01	RHD 5-3064E+00	1.5473E+01	2.2873E+01
н .	4.5176E+01	6.9422E+01	9.3593E+01	H 5.5499E+01	8.8383E+01	1.1528E+02
A	5.4372E+00	6.0254E+00	6.5075E+00	A 5.6464E+30	6.3939E+00	6.8793E+00
S .	1.2037E+00	1.2130E+00	1.2385F+00	S 1.2227E+00	1.2380E+00	1.2672E+00
Z	1.0254E+00	1.0774E+00	1.1336E+00	1.0489E+00	1.1229E+00	1.1849E+00
GAME	7.59346-01	7.2671E-01	7.1759E-01	GAME 7.3436E-01	7.1855E-01	7.1327E-01
U	9.2861E+00	3.6735E+90	3.1779E+00	U 1.0571E+01	3.6189E+00	3.1973E+00
SPECIE	s	MOLE FRACTIONS		SPECIES	- MOLE FRACTIONS	
E	2.4767E-02	7.1797E-02	1.1789E-01	E- 4.6641E-02	1.0944E-01	1-5601E-01
Ā ·	9.5047E-01	8.5641E-01	7.6423E-01	A 9.0672E-01	7.8112E-01	6.8798E-01
A+ :	2.4767E-02	7.1797E-02	1.1788E-01	A+ 4.6641E-02	1.0944E-01	1.5601E-01
Δ++	9.3886E-10	8.2176E-08	7.5737E-07	A++ 9.67645-09	4.9721E-07	2.8188E-06
A+++	1.5572E-23	4.8462E-19	8.5396E-17	A+++ 2.7208E-21	3.0166E-17	1.8175E-15
V++++ ,	3.7113E-45	1.2343E-36	2.1450E-32	A++++ 5.4888E-41	2.8579E-33	6.73736-30
AV	5.0721E-74	3.2517E-60	2.14506-52	AV 2.7760E-41	8.6533E-55	2.5096E-49
AVI:	. 0.	2.4800E-90	2.245/E-33 2.8871E-80	1VA 2.7760E-67	3.0903E-82	
	0.					3 • 91 93E - 74
AVII	o. o.	0.	0.	.c liva	0.	0.
IIIVA	J.	0.	0.	AVIII).	0.	0.

P1 = 5.0	OE+03 N/SU-M,	US1= 4.40E+0	3 M/SEC	P1 = 5.	.00E+03 N/SU-M	US1= 4.80E+0	3 M/SEC
			•				
MI	DUINC CHOCK CT	ANDING CHOCK	REFLECTED SHOCK		MONTHS SHOCK	STANDING SHOCK	REFLECTED SHOCK
	2.5594E+02	1.0566E+03		Р	3.1094E+02	1.4689E+03	2.3597E+03
	4.2875E+C1	5.2692E+01	1.7715E+03	Ť	4.5561E+01	5-6544E+01	6.1747E+01
			5.7932E+01	RHO		2.1655E+01	
		1.7473E+01	2.5230E+01	H	6.2451E+00		3.0131E+01
	6.1047E+01	9.8676E+01			7-29025+01	1.2066E+02	1.5205E+02
		6.5802E+00	7.0688E+30	A	5.9849E+00	6.9521E+00	7.4526E+00
		1.2514E+00	1.2825E+00	S	1.2541E+00	1.2801E+00	1.3144E+00
		1.1476E+00	1.2120E+00	Z	1.0928E+00	1.1996E+00	1.2683E+00
	7.2760E-01	.7.1605E-01	7.1165E-01	GAME	7-1941E-01	7.1252E-01	7.0922E-01
U	l.1216E+01	3.5920E+00	. 3.2158F+00	U	1.24995+01	3.5980E+00	3.2490E+00
		•					

SPEC IES		IDLE FRACTIONS		SPECIES	~	- MOLE FRACTIONS	
E-	5.8865E-02	1.2861E-01	1.7492E-01	E-1	8.4931E-02	1.6641E-01	2.1155E-01
Ā ·		. 7.4278E-01	6.5317E-01	Ā	8.3014E-01	6.6718E-01	5.7692E-01
A+	5.8865E-02	1.2861E-01	1.7491E-01	Ã+	8.4931E-02	1.6641E-01	2.1152E-01
	2.3460E-08	1.2361E-01	5.0083E-06	A++	9.9006E-08	3.5949E-06	1.3979E~05
	1.9512E-20			A+++	4.8578E-19	3.0327E-15	7.9039E-14
A++++	2.1064E-39	1.6582E-16	6.9995E-15	A++++	7.6480E-37	1.6532E-29	8.0096E-27
Av		7.0866E-32	8.4776E-29				
	9.4008E-65	1.5814E-52	1.4837E-47	AV .	8.2572E-61	9.9884E-49 2.7771E-73	2.2275E-44
AVI	.0.	7.5569E-79	1.6107E-71	AVI	1.4744E-90		
AVII	o	0.	o.	AVII	9.	0.	0.
IIIVA	o. ·	0.	0.	IIIVA	٥.	0.	0.
	•		•				
		•					,
٠							,
P1 = 5.00	DE+03 N/SU-M.	US1= 4.60E+0	3 M/SEC	P1 = 5.	.008+03 N/SQ-M	. us1= 5.00E+0)3 M/SEC
P1 = 5.08	DE+03 N/SQ-M.	US1= 4.60E+0		P1 = 5.	.00E+03 N/SQ-M	. usl= 5.00E+0)3 M/SEC
			•	P1 = 5.			
, M	OVING SHOCK SI	ANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P M	UVING SHOCK S1 2.8281E+02	ANDING SHOCK	•	. 8	MOVING SHOCK, 344032E+02	STANDING SHOCK 1.7099E+03	REFLECTED SHOCK 2.6975E+03
P T	OVING SHOCK SI	ANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
MO P : T : RHD :	UVING SHOCK S1 2-8281E+02 4-4258E+01 5-9320E+00	ANDING SHOCK	REFLECTED SHOCK 2.0529E+03	. 8	MOVING SHOCK, 344032E+02	STANDING SHOCK 1.7099E+03	REFLECTED SHOCK 2.6975E+03
MO P : T : RHD :	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00	ANDING SHOCK 1.2520E+03 5.4631E+01	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01	8 1	MOVING SHOCK, 3,4032E+02 4,6800E+01	STANDING SHOCK 1.7099E+03 5.8423E+01	REFLECTED SHOCK 2-6975E+03 6-3674E+01
MI P ; T ; RHD ;	UVING SHOCK ST 2-8281E+02 4-4258E+01 5-9320E+00 6-6849E+01	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02	β 1 R40	MOVING SHOCK, 3,4032E+02 4,6800E+01 6,5554E+00 7,9207E+01	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3854E+01	REFLECTED SHOCK 2-6975E+03 6-3674E+01 3-2644E+01 1-6551E+02
P T RHJ H	UVING SHOCK ST 2-8281E+02 4-4258E+01 5-9320E+00 6-6849E+01	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02 6.7647E+00	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00	в т к10 н	MDVING SHOCK 3,4032E+02 4.6800E+01 6.5554E+00 7.9207E+01 6.1006E+00	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3654E+01 1.3242E+02 7.1399E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6509E+00
MI P T RHJ H A S	UVING SHOCK ST 2.8281E+02 4.4258E+01 5.9320E+00 6.8349E+01 5.8734E+00 1.2433E+00	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2983E+00	β Т R-10 Н А	MDVING SHOCK 3.4032E+02 4.6800E+01 6.5554E+00 7.9207E+00 6.1006E+00 1.2653E+00	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3654E+01 1.3242E+02 7.1399E+00 1.2952E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6509E+00 1.3313E+00
M P T CHR H A S Z	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 5.8734E+00 1.2433E+00	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 1.1730E+00	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2983E+00 1.2400E+00	β T R-10 H A S Z	MDVING SHOCK 3.4032E+02 4.6800E+01 6.5554E+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+00	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644F+01 1.6551E+02 7.6509E+00 1.3313E+00 1.2977E+00
P T RHJ H A S Z GAME	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 5.8734E+00 1.2433E+00 1.0772E+00 7.2284E-01	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 1.1730E+00 7.1412E-01	REFLECTED SHDCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2983E+00 1.2400E+00 7.1030E+01	A T R-10 H A S Z Game	MOVING SHOCK 3.4032E+02 4.6800E+01 6.5554E+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+00 7.1688E-01	\$TANDING \$HOCK 1.7999E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00 7.1121E-01	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6509E+00 1.3313E+00 1.297E+00 7.0839E-01
P T RHJ H A S Z GAME	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 5.8734E+00 1.2433E+00	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 1.1730E+00	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2983E+00 1.2400E+00	β T R-10 H A S Z	MDVING SHOCK 3.4032E+02 4.6800E+01 6.5554E+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+00	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644F+01 1.6551E+02 7.6509E+00 1.3313E+00 1.2977E+00
P T RHJ H S S Z GAME	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 5.8734E+00 1.2433E+00 1.0772E+00 7.2284E-01	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 1.1730E+00 7.1412E-01	REFLECTED SHDCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2983E+00 1.2400E+00 7.1030E+01	A T R-10 H A S Z Game	MOVING SHOCK 3.4032E+02 4.6800E+01 6.5554E+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+00 7.1688E-01	\$TANDING \$HOCK 1.7999E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00 7.1121E-01	REFLECTED SHOCK 2.69756+03 6.36746+01 3.26445+01 1.65516+02 7.65096+00 1.33136+00 1.29776+00 7.08395-01
P T RHJ H S S Z GAME	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 5.8734E+00 1.2433E+00 1.0772E+00 7.2284E-01 1.1859E+01	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 1.1730E+00 7.1412E-01	REFLECTED SHDCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2983E+00 1.2400E+00 7.1030E-01 3.2395E+00	A T R-10 H A S Z Game	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554F+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+00 7.1688E-01	\$TANDING \$HOCK 1.7999E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00 7.1121E-01	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6509E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00
P T RHJ H A S C G A G S C G S S S S S S S S S S S S S S S S	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 1.2433E+00 1.2743E+00 1.0772E+00 7.2284E-01 1.1859E+01	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.9942E+02 6.7647E+00 1.2653E+00 7.1412E-01 3.5918E+00	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2963E+00 1.2963E+00 7.1030E-01 3.2395E+00	A CHD A S Z Game U	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554E+00 7.9207E+01 6.1006E+00 1.2653E+00 7.1688E+01 1.3136E+01	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2952E+00 7.1121E-01 3.5942E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6559E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00
P T RHJ H A S C GAME U SPECIES	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 5.8734E+00 1.2433E+00 1.0772E+00 7.2284E-01 1.1859E+01	TANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 1.1730E+00 7.1412E-01 3.5918E+00	REFLECTED SHDCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2993E+00 1.2400E+00 7.1030E-01 3.2395E+00	B T R 40 H A S Z GAME U SPECIES	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554F+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+00 7.1688E-01 1.3136E+01	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3654E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00 7.1121E-01 3.5942E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6509E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00
P T RHJ H A S Z GAME U SPECIES	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 5.3734E+00 1.2433E+00 1.0772E+00 7.2246E-01 1.1859E+01	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 1.1730E+00 7.1412E-01 3.5918E+00	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7642E+01 1.3933E+02 7.2605E+00 1.2983E+00 1.2400E+00 7.1030E-01 3.2395E+00	B T R-10 H A S Z GAME U SPECIES E- A	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554E+00 7.9207E+01 6.1006E+00 1.2653E+00 7.1688E-01 1.3136E+01	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3654E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00 7.1121E-01 3.5942E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6559E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00
P T RHJ H A S C GAME U SPECIES	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 1.2433E+00 1.272E+00 1.1859E+01 7.1676E-02 8.5665E-01 7.1676E-02	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 7.1412E-01 3.5918E+00 MULE FRACTIONS 1.4747E-01 1.4747E-01	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2983E+00 1.2400E+00 7.1030E+01 3.2395E+00	A T R-10 H A S Z GAME U SPECIES E-A A 4+	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554E+00 7.9207E+01 6.1006E+00 1.2653E+00 7.1688E-01 1.3136E+01	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00 7.1121E+01 3.5942E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6509E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00
P T RHJ H A S Z Z GAME U U SPECIES	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 1.2433E+00 1.0772E+00 7.2244E-01 1.1859E+01 7.1676E-02 8.5665E-01 7.1676E-02 5.0434E-08	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 1.1730E+00 7.1412E-01 3.5918E+00	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7642E+01 1.3933E+02 7.2605E+00 1.2983E+00 1.2400E+00 7.1030E-01 3.2395E+00	# T R + D H A S Z GAME U SPECIES E-A A + A + + A + +	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554F+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+00 7.1688E+01 1.3136E+01 9.8518E-02 3.0296E-01 9.8518E-02 1.8120E-07	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3454E+01 1.3242E+02 7.1399E+00 1.2269E+00 7.1121E-01 3.5942E+00 MOLE FRACTIONS 1.8493E-01 6.3014E-01 1.8492E-01 6.2014E-06	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6509E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00 2.2943E-01 5.415E-01 2.2939E-01 2.2449E-05
PT RHD H A S C GAME U SPECIES	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 1.2433E+00 1.272E+00 1.1859E+01 7.1676E-02 8.5665E-01 7.1676E-02	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 7.1412E-01 3.5918E+00 MULE FRACTIONS 1.4747E-01 1.4747E-01	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2983E+00 1.2400E+00 7.1030E+01 3.2395E+00	A T R-10 H A S Z GAME U SPECIES E-A A 4+	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554E+00 7.9207E+01 6.1006E+00 1.2653E+00 7.1688E-01 1.3136E+01	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00 7.1121E+01 3.5942E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6509E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00
PT RHD H A A S Z GAME U SPECIES	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 1.2433E+00 1.0772E+00 7.2244E-01 1.1859E+01 7.1676E-02 8.5665E-01 7.1676E-02 5.0434E-08	TANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.9942E+02 6.7647E+00 1.2653E+00 1.1730E+00 7.1412E-01 3.5918E+00 1.4747E-01 7.0506E-01 1.9814E-06	REFLECTED SHDCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2903E+00 1.2903E+00 7.1030E-01 3.2395E+00	# T R + D H A S Z GAME U SPECIES E-A A + A + + A + +	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554F+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+00 7.1688E+01 1.3136E+01 9.8518E-02 3.0296E-01 9.8518E-02 1.8120E-07	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3454E+01 1.3242E+02 7.1399E+00 1.2269E+00 7.1121E-01 3.5942E+00 MOLE FRACTIONS 1.8493E-01 6.3014E-01 1.8492E-01 6.2014E-06	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6509E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00 2.2943E-01 5.415E-01 2.2939E-01 2.2449E-05
PT RHD H A S C GAME U SPECIES	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 1.2433E+00 1.2433E+00 1.2284E-01 1.1859E+01 7.1676E-02 8.5665E-01 7.1676E-02 5.0434E-08	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 1.1730E+00 7.1412E-01 3.5918E+00 MULE FRACTIONS 1.4747E-01 1.9814E-06 7.5177E-16	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2983E+00 1.2400E+00 7.1030E+01 3.2395E+00 1.9353E-01 6.1295E-01 1.9351E-01 8.533TE-06 2.4566E-14 8.9224E-28	# T R + C C C C C C C C C C C C C C C C C C	MOVING SHJCK 3.4032E+02 4.6400E+01 6.5554E+00 7.9207E+01 1.2653E+00 1.1093E+00 7.1688E-01 1.3136E+01 9.8518E-02 3.0296E-01 9.8518E-02 1.8120E-07 1.9124E-18	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00 7.1121E-01 3.5942E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6559E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00 2.2949E-01 5.4115E-01 2.2939E-01 2.2449E-05 2.443E-13
PT RHD H A A S Z GAME U SPECIES	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 1.2433E+00 1.2433E+00 1.0772E+00 7.1676E-02 8.5665E-01 7.1676E-02 8.5665E-01 7.1676E-02 8.5065E-01 4.1676E-02 8.5065E-01 4.1676E-02 8.5065E-01 4.1676E-02 8.5065E-01 4.1676E-02 8.5065E-01 4.1676E-02 8.5065E-01 4.1676E-02 8.5065E-01 4.1676E-02 8.5065E-01 4.1676E-02 8.5065E-01	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 7.1412E-01 3.5918E+00 1.4747E-01 7.9506E-01 1.9814E-06 7.5177E-16 1.2069E-30	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2963E+00 1.2400E+00 7.1030E-01 3.2395E+00 1.9353E-01 6.1295E-01 1.9351E-01 8.5337E-06 2.4565E-14	# T R-10 H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554F+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+01 7.1688E+01 1.3136E+01 9.8518E-02 3.0296E-01 9.8518E-02 1.8120E-07 1.9124E-1	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2269E+00 7.1121E-01 3.5942E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6599E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00 2.2943E-01 5.4115E-01 2.2449E-05 2.4434E-13 6.5911E-26
P T RHD H A S Z Z GAME U U SPECIES & A A A A A A A A A A A A A A A A A A	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 5.8734E+00 1.2433E+00 1.0772E+00 7.2244E-01 1.1859E+01 7.1676E-02 8.5665E-01 7.1676E-02 8.5665E-01 7.1676E-02 8.5666E-01 7.1676E-02 8.5665E-01	ANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 7.1412E-71 3.5918E+00 MULE FRACTIONS 1.4747E-01 1.9814E-06 7.5177E-16 1.2069E-30 1.4938E-50 5.8850E-76	REFLECTED SHOCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2963E+00 1.2400E+00 7.1030E-01 3.2395E+00 1.9353E-01 6.1295E-01 1.9351E-01 8.5337E-06 2.4565E-14 8.9224E-28 6.4832E-46 4.0667E-69	# T R + D H A S Z GAME U SPECIES E- A A+ A++ A+++ A+++ AV	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554E+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+00 7.1688E-01 1.3136E+01 9.8518E-02 1.8120E-07 1.9124E-18 1.0312E-35 7.1717E-35 2.4499E-88	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2259E+00 7.1121E-01 3.5942E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6509E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00 2.2943E-01 2.2939E-01 2.2939E-01 2.2449E-05 2.4343E-13 6.5911E-26 6.5724E-43
P T RHJ H A S Z GAME U SPECIES & A A A A A A A A A A A A A A A A A A	UVING SHOCK S1 2.8281E+02 4.4258E+01 5.9320E+00 6.6849E+01 5.8734E+00 1.2433E+00 1.772E+00 7.1676E-02 8.5665E-01 7.1676E-02 5.0434E-08 1.0747E-19 4.8646E-38 1.3268E-62 0.	TANDING SHOCK 1.2520E+03 5.4631E+01 1.9538E+01 1.9538E+01 1.0942E+02 6.7647E+00 1.2653E+00 7.1412E-01 3.5918E+00 7.1474TE-01 7.0506E-01 1.9814E-06 7.5177E-16 1.2069E-30	REFLECTED SHDCK 2.0529E+03 5.9851E+01 2.7662E+01 1.3933E+02 7.2605E+00 1.2963E+00 1.2963E+00 1.2963E+00 1.32395E+00	# T R+O H A S Z GAME U SPECIES E-A A+A++A+++A+++A+++A+++A+++A+++A+++A+++	MOVING SHJCK 3.4032E+02 4.6800E+01 6.5554F+00 7.9207E+01 6.1006E+00 1.2653E+00 1.1093E+00 7.1688E+01 1.3136E+01 9.8518E+02 3.0296E+01 9.8518E+02 1.8120E+07 1.9124E+18 1.0312E+35 7.1717E+59	STANDING SHOCK 1.7099E+03 5.8423E+01 2.3854E+01 1.3242E+02 7.1399E+00 1.2952E+00 1.2952E+00 7.1121E-01 3.5942E+00	REFLECTED SHOCK 2.6975E+03 6.3674E+01 3.2644E+01 1.6551E+02 7.6559E+00 1.3313E+00 1.2977E+00 7.0839E-01 3.2867E+00 2.2943E-01 5.4115E-01 2.2949E-01 2.2449E-05 2.2443E-13 6.5911E-26 6.5724E-43 1.0861E-64

						_	•
P1 = 5	.00E+03 N/SQ-M	. US1= 5.20E+0	3 M/SEC	P1 =	5.00E+03 N/SQ-4	, US1= 5.67E+0	D3 M/SEC
					•		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MONTAC CHOCK	CTANOTHE CHOCK	0551 55350 511054
_							REFLECTED SHOCK
P	3.7094E+32	1.9697E+03	3.0634E+03	P;	4.3611E+02	2.5570E+03	3.88805+03
T	4.7988E+01	6.0270E+01	6.5618E+01		5.02516+01	6.3958E+01	6.9644E+01
RHG	6.8614E+30	2.6047E+01	3.5161E+01	RHJ	7.4594E+00	3.0468E+01	4.01706+01
H	8.5764E+01	1.4461E+02	1.7951E+02	H ·	9.9644E+01	1.7049E+02	2.0935E+02
A	6.2173E+00	7.3281E+00	7.8533E+00	A	6.4544E+00	7.7124E+00	8.2791E+00
S	1.2768E+00	1.3108E+00	1.3486E+00	S	1.3G09E+00	1.3435E+00	1.3846E+00
ι.	1.12665+00	1.2547E+00	1.3277E+00	2	1.1634F+30	1.3122E+30	1.3898E+00
GAME	7.1501E-01	7.1013E-01	7.0789E-01	GAME	7.1256F-01	7.0873E-01	7.0817E-01
U	1.3771E+01	3.6193E+00	3.32615+00	U	1.5040E+01	3.6966E+00	3.421 5E+00
. SPECIES		- MULE FRACTIONS		SPECIE	s	- Male FRACTIONS	
E	1.1235E-01	2.0300E-01	2.4685E-01	£ + ·	1.40486-01	2.3792E-31.	2.8045E-01
	7.7530E-01		5.0634E-01	Δ .	7.1904E-01		
Α			2.4678E-01	A+			4.3918E-01
A+	1.1235E-01				1.4048F-J1		2.8028E-01
A++	3.1316E-07.		3.5264E-05	A++	ø.2312E-07	2.5821E-05	8.36795-05
A+++	6.5509E-18	3.5971E-14	7.1399E-13	A+++	5.8999E-17	3.2214E-13	5.6464E-12
A++++ · ·	9.7604E-35	1.71866-27	4.9386E-25	4+++	5.8007E-33	1.0506E-25	2.35236-23
AV	2.2237E-57	1.7494E-45	1.6628E-41	AV .	. 1.5230E-54	1.3105E-42	8.1371E-39
IVA	1.66628-86	1.6200E-68	1.2397F-62	IVA	2.2216E-82	2.8010E-64	1.0919E-58
IIVA	o.	ō.	4.1896E-91	AVII	o.	3.4012E-94	2.0401E-85
AVIII	0.	· o.	0.	AVIII	o.	υ.	0.
P1 = 5	.00E+03 N/SQ-M	. US1= 5.49E+0	3 M/SEC	P1 = 5	5.00E+03 N/SQ-M	, US1= 5.80E+0	03 M/SEC
		-					
	MOVING SHOCK	STANDING SHOCK			MONITAGE CHOCH	CTAMBLE CHOCK	
Ρ `	4.0308E+02		REFLECTED SHOCK		MUAING SHOCK	STANDING SHOCK	REFLECTED SHUCK
T		2.2576E+03	REFLECTED SHOCK 3.4644E+03	Р	4.7035E+32	2.8854E+03	4.3410F+03
	4.9139E+01	2.2576E+03 6.2133E+01		P T			
RHO	4.9139E+01 7.1662E+00		3.4644E+03		4.7035E+32	2.8854E+03	4.341 0F+03 7.1738E+01
RHO H		6.2133E+01	3.4644E+03 6.7618E+01	T	4.7035E+02 5.1335E+01	2.8854E+03 6.5819E+01	4.3410E+03 7.1738E+01 4.2569E+01
	7.1662E+00	6.2133E+01 2.8313E+01	3.4644E+03 6.7618E+01 3.7711E+01	T CHR	4.7035E+02 5.1335E+01 7.7455E+00	2.8854E+03 6.5819E+01 3.26745+01 1.8413E+02	4.3410F+03 7.1738E+01 4.2569E+01 2.2506E+02
H A	7.1662E+00 9.2588E+01 6.3355E+00	6.2133E+01 2.8313E+01 1.5742E+32	3.4644E+03 6.7618E+01 3.7711E+01 1.9422E+J2	T CHR H	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.9397E+00	4.341 0F + 03 7.173 8F + 01 4.256 9F + 01 2.250 6F + 02 8.504 0F + 00
H A S	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00	6.2133E+01 2.8313E+01 1.5742E+32 7.5205E+00 1.3273E+00	3.4644E+03 6.7618E+01 3.7711E+01 1.9422E+J2 8.0636E+00 1.3664E+00	T CHR H A S	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+00 1.3134E+00	2.8854E+03 6.5819E+01 3.26745+01 1.8413E+02 7.9397E+00 1.3604E+00	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00
H A S	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00	6.2133E+01 2.8313E+01 1.5742E+32 7.5205E+00 1.3273E+00 1.2834E+00	3.4644E+03 6.7618E+01 3.7711E+01 1.9422E+J2 8.0636E+00 1.3664E+00 1.3586E+00	T CHR H A S 2	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+00 1.3134E+00 1.3134E+00	2.8854E+03 6.5819E+01 3.26745+01 1.8413E+02 7.9797E+00 1.3604E+00 1.3417E+00	4.3410F+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00
H A S	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00	6.2133E+01 2.8313E+01 1.5742E+32 7.5205E+00 1.3273E+00	3.4644E+03 6.7618E+01 3.7711E+01 1.9422E+J2 8.0636E+00 1.3664E+00	T CHR H A S	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+00 1.3134E+00	2.8854E+03 6.5819E+01 3.26745+01 1.8413E+02 7.9397E+00 1.3604E+00	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00
H A S Z GAME	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00 7.1360E-01 1.4413E+01	6.2133E+01 2.8313E+01 1.5742E+32 7.5205E+00 1.3273E+00 7.0929E-01 3.6395E+00	3.4644E+03 6.7618E+01 3.77115+01 1.9422E+02 8.0636E+00 1.3564E+00 1.3586E+00 7.0778E-01 3.2711E+00	T RHO H A S S Z GAME U	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+03 1.3134E+03 1.1829E+00 7.1103E-01 1.5664E+01	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.4997E+00 1.3604E+00 1.3417E+00 7.3848E+01 3.7211E+30	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00
H A S	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00 7.1360E-01 1.4413E+01	6.2133E+01 2.8313E+01 1.5742E+J2 7.5205E+00 1.327JE+00 1.2834E+00 7.0929E-01	3.4644E+03 6.7618E+01 3.77115+01 1.9422E+02 8.0636E+00 1.3564E+00 1.3586E+00 7.0778E-01 3.2711E+00	T CHR A A S S S GMAE	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+03 1.3134E+03 1.1829E+00 7.1103E-01 1.5664E+01	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.9397E+00 1.3604E+00 1.3417E+00 7.3848E-01	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00
H A S Z GAME U SPECIES	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00 7.1360E-01 1.4413E+01	6.2133E+01 2.8313E+01 1.5742E+32 7.5205E+00 1.3273E+00 7.0929E-01 3.6395E+00	3.4644E+03 6.7618E+01 3.77115+01 1.9422E+02 8.0636E+00 1.3564E+00 1.3586E+00 7.0778E-01 3.2711E+00	T RHO H A S S Z GAME U	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+03 1.3134E+03 1.1829E+00 7.1103E-01 1.5664E+01	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.4997E+00 1.3604E+00 1.3417E+00 7.3848E+01 3.7211E+30	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00
H A S Z GAME	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00 7.136UE-01 1.4413E+01	6.2138+01 2.8313E+01 1.5742E+32 7.5205E+00 1.3273E+00 1.2834E+00 7.0929E-01 3.6395E+00	3.4644E+03 6.7618E+01 3.7711E+01 1.9422E+02 8.0636E+00 1.3664E+00 7.0778E-01 3.2711E+00	T RHO H A S S Z GAME U	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+03 1.3134E+03 1.1829E+00 7.1143E-01 1.5664E+01	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.997E+00 1.3604E+00 1.3417E+00 7.3848E+01 3.7211E+00	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00
H A S Z GAME U SPECIES E-A	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00 7.1360E-01 1.4413E+01	6.2133E+01 2.8313E+01 1.5742E+02 7.5205E+00 1.3270E+00 1.2834E+00 7.0929E+01 3.6395E+00	3.4644E+03 6.7618E+01 3.7711E+01 1.9422E+J2 8.0636E+00 1.3664E+00 1.3586E+00 7.0778E-01 3.3711E+00	T RHO H A S E GAME U SPECIES	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+00 1.3134E+03 1.1829E+00 7.113E-01 1.5664E+01	2.8854E 03 6.5819E+01 3.2674E+01 1.8413E+02 7.997E+00 1.3604E+00 7.3848E-01 3.7211E+00 - MULE FRACTIONS 2.5466E-01 4.9072E-01	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00
H A S C C C C C C C C C C C C C C C C C C	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00 7.1360E-01 1.4413E+01	6.2138+01 2.8313E+01 1.5742E+02 7.5205E+00 1.3273E+00 7.0929E-01 3.6395E+00 - MOLE FRACTIONS 2.2080E-01 5.5841E-01	3.4644E+03 6.7618E+01 3.7711E+01 1.9422E+02 8.0636E+00 1.3664E+00 1.3586E+00 7.0778E=01 3.2711E+00 2.6396E+01 4.7214E+01 2.6385E+01	T H H A S Z GAME U SPEČIES	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+03 1.3134E+03 1.1829E+00 7.1163E-01 1.5664E+01	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.9997E+00 1.3604E+00 1.3417E+00 7.3848E+01 3.7211E+30 - MULE FRACTIONS 2.5466E-01 4.9072E-01 2.5458E-01 2.5458E-01	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00
H A S Z Z GAME U SPECIES E-A A A+	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00 7.1360E-01 1.4413E+01 1.2638E-01 7.4724E-01 1.2638E-01	6.2138+01 2.8313E+01 1.5742E+32 7.5205E+00 1.3273E+00 1.2834E+00 7.0929E-01 3.6395E+00 - MOLE FRACTIONS 2.2080E-01 5.5841E-01 2.2077E-c1	3.4644E+03 6.7618E+01 3.77115+01 1.9422E+02 8.0636E+00 1.3664E+00 1.3586E+00 7.0778E-01 3.3711E+00	T HH A S Z GAME U SPECIES	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+00 1.3134E+03 1.1829E+00 7.1143E-01 1.5664E+01	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.979TE+00 1.3604E+00 1.3417E+00 7.3848E-01 3.7211E+30 - MULE FRACTIONS 2.5466E-01 4.9072E-01 2.5458E-01 3.9667E-05	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00 2.9652E-01 4.0709E-01 1.2706E-01
H A S Z GAME U SPECIES E-A A+A++	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00 7.1360E-01 1.4413E+01 	6.2138+01 2.83138+01 1.5742E+32 7.5205E+00 1.3273E+00 7.0929E-01 3.6395E+00 - MOLE FRACTIONS 2.2080E-01 5.5841E-01 2.2077E-C1 1.6548E-05 1.1193E-13	3.4644E+03 6.7618E+01 3.77115+01 1.9422E+J2 8.0636E+00 1.3664E+00 1.3586E+00 7.0778E-01 3.3711E+00	T HHAA S Z GAME U SPEČIES A A+	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+03 1.3134E+03 1.1829E+00 7.1163E-01 1.5664E+01 6.9073E-01 1.5463E-01 1.5463E-01 1.5463E-01 1.5463E-01	2.8854E 03 6.5819E+01 3.2674E+01 1.8413E+02 7.979TE+00 1.3604E+00 7.3848E-01 3.7211E+00 - MULE FRACTIONS 2.5466E-01 4.9072E-01 2.5458E+01 3.9667E-05 8.9718E-13	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00 2.9652E-01 4.0709E-01 1.2706E-04 1.5392E-01
H A S S Z GAME U SPECIES E-A A+A+++A+++	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00 7.1360E-01 1.4413E+01 	6.2138+01 2.8313E+01 1.5742E+32 7.5205E+00 1.3273E+00 1.22834E+00 7.0929E-01 3.6395E+00 - MOLE FRACTIONS 2.2080E-01 5.5841E-01 2.2077E-01 1.6548E-05 1.1193E-13 1.4545E-26	3.4644E+03 6.7618E+01 3.77115+01 1.9422E+02 8.0636E+00 1.3586E+00 7.0778E-01 3.2711E+00 2.6396E-01 4.7214E-01 2.6385E-01 5.4758E-05 2.0443E-12 3.5302E-24	T RHO H A S Z GAME U SPECIES	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+00 1.3134E+03 1.1829E+00 7.1130E-01 1.5664E+01 6.9073E-01 1.5464E-01 6.9073E-01 1.5463E-01 1.5904E-05 3.7055E-32	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.997E+00 1.3604E+00 1.3417E+00 7.3848E-01 3.7211E+00 - MULE FRACTIONS 2.5466E-01 4.9072E-01 2.5458E-01 3.9667E-05 8.9718E-13 7.1354E-25	4.3410E+03 7.173E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00 2.9652E-01 4.0709E-01 1.2706E-04 1.3392E-11 1.5242E-22
H A S S Z GAME U SPECIES E-A A+A++A+++A+++	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+01 1.4413E+01 1.2638E-01 7.4724E-01 1.2638E-01 5.1799E-07 2.0656E-17 8.5425E-34 8.2792E-56	6.2133E+01 2.8313E+01 1.5742E+32 7.5205E+00 1.3273E+00 1.3273E+00 7.0929E-01 3.6395E+00 - MOLE FRACTIONS 2.2080E-01 5.5841E-01 2.2077E-01 1.6548E-05 1.1193E-13 1.4545E-26 5.5243E-44	3.4644E+03 6.7618E+01 3.77115+01 1.942EE+02 8.0636E+00 1.3664E+00 1.3586E+00 7.0778E-01 3.3711E+00	T RHO HH A S Z GAME U SPECIES E - A A + A + + A + + + A + + + + A Y S S S S S S S S S S S S S S S S S S	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+03 1.3134E+03 1.1829E+00 7.113E-01 1.5664E+01 6.9073E-01 1.5464E-01 6.9073E-01 1.5463E-01 1.5463E-01 1.5904E-10 3.7665E-32 3.4652E-53	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.979TE+00 1.3604E+00 1.3417E+00 7.0848E+01 3.7211E+00 - MULE FRACTIONS 2.5466E+01 4.9072E+01 2.5458E+01 3.9667E+05 8.9718E+13 7.1354E+25 2.8130F+41	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00 2.9652E-01 4.0709E-01 1.2706E-04 1.5392E-11 1.5242E-22 1.6194E-37
H A S Z GAME U SPECIES E-A A +++ A+++ AV I	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+00 7.1360E-01 1.4413E+01 1.2638E-01 7.4724E-01 1.2638E-01 5.1799E-07 2.0656E-17 9.5425E-34 8.2792E-56 7.4062E-84	6.2138+01 2.83138+01 1.5742E+32 7.5205E+00 1.3273E+00 7.0929E-01 3.6395E+00 - MOLE FRACTIONS 2.2C80E-01 5.5841E-01 2.2C77E-C1 1.6548E-05 1.1193E-13 1.4545E-26 5.5243E-44 2.7339E-66	3.4644E+03 6.7618E+01 3.77115+01 1.9422E+02 8.0636E+00 1.3664E+00 1.3586E+00 7.0778E-01 3.2711E+00 2.6396E-01 4.7214E-01 2.6385E-01 5.4758E-05 2.0443E-12 3.5302E-24 3.8955E-40 1.2646E-60	T HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+00 1.3134E+03 1.1829E+00 7.1143E-01 1.5664E+01 3.5664E-01 6.9073E-01 1.5464E-01 6.9073E-01 1.5463E-01 1.5465E-32 3.4652E-32 3.4652E-33 5.0248E-80	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.9997E+00 1.3604E+00 1.3417E+00 7.3848E+01 3.7211E+30 - MULE FRACTIONS 2.5466E+01 4.9072E+01 2.5456E+01 7.39667E+05 8.9718E+13 7.1354E+25 2.8130E+41 2.4366E+62	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00 2.9652E-01 4.0709E-01 1.2706E-04 1.5392E-11 1.5242E-22 1.6194E-37 8.7484E-57
H A S S Z GAME U SPECIES E-A A+A++A+++A+++	7.1662E+00 9.2588E+01 6.3355E+00 1.2887E+00 1.1447E+01 1.4413E+01 1.2638E-01 7.4724E-01 1.2638E-01 5.1799E-07 2.0656E-17 8.5425E-34 8.2792E-56	6.2133E+01 2.8313E+01 1.5742E+32 7.5205E+00 1.3273E+00 1.3273E+00 7.0929E-01 3.6395E+00 - MOLE FRACTIONS 2.2080E-01 5.5841E-01 2.2077E-01 1.6548E-05 1.1193E-13 1.4545E-26 5.5243E-44	3.4644E+03 6.7618E+01 3.77115+01 1.942EE+02 8.0636E+00 1.3664E+00 1.3586E+00 7.0778E-01 3.3711E+00	T RHO HH A S Z GAME U SPECIES E - A A + A + + A + + + A + + + + A Y S S S S S S S S S S S S S S S S S S	4.7035E+02 5.1335E+01 7.7455E+00 1.0695E+02 6.5745E+03 1.3134E+03 1.1829E+00 7.113E-01 1.5664E+01 6.9073E-01 1.5464E-01 6.9073E-01 1.5463E-01 1.5463E-01 1.5904E-10 3.7665E-32 3.4652E-53	2.8854E+03 6.5819E+01 3.2674E+01 1.8413E+02 7.979TE+00 1.3604E+00 1.3417E+00 7.0848E+01 3.7211E+00 - MULE FRACTIONS 2.5466E+01 4.9072E+01 2.5458E+01 3.9667E+05 8.9718E+13 7.1354E+25 2.8130F+41	4.3410E+03 7.1738E+01 4.2569E+01 2.2506E+02 8.5040E+00 1.4031E+00 1.4215E+00 7.0917E-01 3.4776E+00 2.9652E-01 4.0709E-01 1.2706E-04 1.5392E-11 1.5242E-22 1.6194E-37

P1 =	5.00E+03 N/SQ-M	, U\$1= 6.00E+0	3 M/SEC	P1 = !	5.00E+03 N/SQ-M	, US1= 6.40E+0	3 M/SEC
	MOVING SHUCK		REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	
P	5.0581E+92	3.2328E+03	4.8238E+03	Ρ	5. a036E+02	3.9912E+03	5.8802E+03
Ŧ	5.2398E+01	6.7699E+Jl	7.3924E+01	T	5.4476E+01	7.1594E+01	7.8685E+01
RHD .	8. 0238E+00	3.4816E+01	4.4883E+01	RHO	8.55482+00	3.8911E+01	4.9151E+01
н	1.1451E+02	1.98206+02	2.4136E+02	н	1.3040E+02	2.2775E+02	2.7585E+02
A	. 6.6960E+00	8.1115E+90	8.741 0E+00	A	6.94375+00	8.536CE+00	9.2633E+00
S	1.32625+00	1.3776E+00	1.4220E+00	S	1.35285+00	1:4130E+00	1.4606E+00
۷.	1.20316+00	1.3716E+00	1.4538E+00	Z	1.2453E+0C	1.4327E+00	1.5204E+00
GAME	7-1125E-01	7.0861E-01	7.1091E-01	GAME	7.1071E-01	7.1035E-01	7.1725E-01
U ¹	1.6286E+01	3.7651E+00	3.5404E+00		1.7523E+01	3.8705E+00	3.6903E+00
							•
SPECIE	S	- MOLE FRACTIONS		SPEC IE	s	- MOLE FRACTIONS	
E	1.6880E-01	2.7091E-01	3.1217E-01	E	1.9700E-01	3.0203E-01	3.4229E-01
	6.6240E-01	4.5825E-01	3.7585E-Q1	· A	6.0601E-J1	3.9608E-01	3.1586E-01
Ā+		2.7079E-01	3.1178E-01	Ã.	1.96998-01	3.01765-01	3.4140E-01
A++ 1	1.6879E-01 1.9019E-06	5.9982E-05	1.9254E-04	A+÷		1.3337E-04	4.4728E-04
A+++					4.0117E-06		3.1931E-10
A++++	4.0271E-16	2.4141E-12 4.5622E-24	4.1838E-11 9.7829E-22	A+++	2.2472E-15	1.6400E-11	4.2186E-20
	2.1118E-31				5.1650E-30	1.6167E-22	
AV	\$.3906E-52	5.6208E-40	3.1570E-36	AV	9.0077E-50	1.6771E-37	1.2666E-33
LVA	2.7028E-78	2.1047E-60	6.7460E-55	AVI	5.0107E-75	8.6381E-57	4.2365E-51
AVII	0.	6.8059E-8B	5.8530E-80	AVII	2.	1.0111E-82	1.6194E-74
IIIVA	3.	0.	0.	JIIVA).	o.	0.
P1 =	5.00E+03 N/SQ-4	, US1= 6.20E+0	3 M/SEC	Pl =	5.00E+03 H/SQ-M	, US1= 6.60E+0	3 M/SEC
	. MONTHS EUGEN	CTANDING CHOCK	DEELECTED CLIPCH		MOUTHE SUPER	STANDING SHOEF	0551 56550 CHUCK
P	MOVING SHOCK		REFLECTED SHOCK	ρ	MOVING SHOCK		REFLECTED SHUCK
. 7	5.4248E+02	3.6)16E+03	5.3368E+03	Ţ	6.1944E+02 5.5499E+01	4.4064E+03 7.3653E+01	6.4545E+03
RHO	5,3444E+01 8,29385+00	6.9619E+01	7-62298+01	RHO	8.8066E+00	4.0865E+01	8.1332E+01
, Knu		3.6902E+01	4.7087E+01	H H			5.1046F+01
	1.2233E+02	2.12745+02	2.5829E+02	Ä	1.38716+02	2. 4327E+02	2.9409E+02
A ´	6.8190E+00	8.3197E+00	8.9929E+00	ŝ	7.0701E+00 1.3665E+00	8.7630E+00	9.55576+00
S Z	1.33945+00	1.3951E+00	1.4412E+00	ž	1.26746+30	1.4311E+00 1.4640E+00	1.48035+00
GAME	1.2239E+00	1.4019E+00	1.4868E+00	GAME	7.1066E-01	7.12166-01	1 • 554 7E + 00 7 • 221 4E - 01
U	7.10906-01	7.0920E-01	7.1355E-01	·U	1.81385+01	3.9128E+00	347804E+00
U	1.6905E+01	3.8147E+00	3.6107E+00	U	1.0130:401	3.71282400	3218045400
SPEC LE	FS	- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
E	1.8293E-01	2.8669E-01	3.2742E-01	· E-	2.10976-01	3.1694E-01	3.5679E-01
A .	6.3414E-01	4.26718-01	3.4545E-01	Ā	5.7808E-01	3.6632E-01	2.8712E-01
A+	1.82926-01	2.8651E-01	3.2684E-01	Ã+	2.1395E-01	3.1654E-01	3.5540E-01
				A++	5.6762E-06	1.9788E-04	6.9159E-04
A+++	. 20.0032 00	8.97428-05	2.92468-04	A+++	5.0143E-15	4.2378E-11	
A++++	9.6840E-16	6.3365E-12	1.1450E-10	A++++	2.28986-29	9.4443E-22	9.1532E-10 2.9414E-19
		2.7543E-23	6.31916-21	AV	9.6416E-49		
AV	6.6931E-51	9.9287E-39	6-1462E-35			2.8148E-36	2.7569E-32
AVI							
	9.4268E-77	1.38996-58	5.0750E-53	AVI	1.5689E-73	5.3691E-55	3.7154E-49
IIVA	9.4268E-77 0.	2.7247E-85 0.	5.0750E-53 2.7532E-77 0.	IIVA IIVA	0. 0.	3.8818E-80 0.	3.7154E-49 9.4059E-72 0.

p₁ = 5 kN/ m²

P1 = 5.00E+03 N/SQ-M.

P1 -	3.00E403 M/36-W	11 031- 0-00E+1	13 H/3EC	F1 -	3.00E403 14736-4	11 031- 1.505+1	75 H732C
				•	*.	•	•
	. MOVING SHUCK		REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	
Р	6.5971E+02	4.8362E+03	7.0631E+03	P	7.4420E+02	5.7565E+03	8.3768E+03
T,	5.6516E+01	7.5794E+01	8.42145+01	T	5.8549E+01	8.0471E+01	9.0891E+01
RHO	9.J488E+00	4.2663E+01	5.2742E+01	RHD .	9.5066E+00	4.5849E+01	5.5505E+01
H	1.4729E+02	2.5920E+02	3.1302E+02	н	1.6521F+02	2.9255E+02	3.5328E+02
A	7.1985E+03	9.0014E+00	9.8731E+00	A	7.4622E+03	9.5264E+00	1.0582E+01
S	1.3805E+00	1.4493E+00	1.5003E+00	S	1.40915+00	1.48645+00	1.5406E+00
Z.	1.2900E+00	1.4956F+00	1.5895E+00	ž	1.33705+33	1.5603E+00	1.6604E+00
GAME	7.10756-01	7.1477E-01	7.2821E-01	GAME	7.1133E-01	7.2281E-01	7.41965-01
Ü	1.8751E+01	3.98145+00	3.8828E+00	Ü	1.9981E+01	4.1477E+00	4.1291E+00
				• •			
SPECI	E S	- MULE FRACTIONS		SPEC IE	s	- MULE FRACTIONS	
E -	2.2481E-01	3.3139E-01	3.7088E-01	E	2.5207E-31	3.5908E-01	3.9775F-01
Δ	5.5038E-01	3.3752E-01	2.5932E-01	A -	4.9587E-01	2.8250E-01	2.07316-01
A+ -	2.24835-01	3.3080E-01	3.6871E-01	A+	2.5204E-01	3.5777E-01	3.92136-01
A++	7.9179E-06	2.9323E-04	1.0852E-03	A++	1.4907E-05	6.55025-04	2.8128E-03
A+++	1.0326E-14	1.0927E-10	2.7248E-09	A+++	4.7396E-14	7.6011E-10	2.7624E-08°
A++++	9.42838-29	5.4658E-21	2.1909E-18	A++++	1.4845E-27	1.9655E-19	1.5369F-16
AV :	8.7321E-48	4.6185E-35	6.6536E-31	AV	7.5622E-46	1.3710E-32	5.5237E-28
AVI	3.1672E-72	3.1878E-53	3.8053E-47	IVA	2.7217E-69	1.2726E-49	6.5386E-43
AVII	7.	1.3560E-77	6.9716E-69	IIVA	0.	1.9168E-72	7.4578E-63:
IIIVA	ć.	0.	2.0580E-95	IIIVA	ŏ.	0.	5.3386E-87
~***		••	2.05000: 35		••	•• ,	2035000 01
		*	·				
						*	
P1 =	5.00E+03 N/SQ-M	I, US1= 7.00E+0	3 M/SEC	P1 =	5.00E+03 N/SQ-M	t, US1= 7.40E+0	3 M/SEC
							•
	MOVING SHUCK	STANDING SHUCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	7.01175+02	5.28398+03	7.73275+03	P	7.8787E+J2	6.2321E+03	9.0659E+33
T	5.7530E+01	7.d044E+01	8.7416E+01	Ţ	5.9568E+01	8.3023E+01	9.4618E+C1
RHO	9.2808E+00	4.4316E+C1	5.4217E+01	RHO	9.7158E+J0	4.7129E+01	5.6529E+01
H	i.5611ē+J2	2.7557E+32	3.3292E+02	н	1.7453E+02	3.0973E+02	3.7413E+02
Α	7.32905+00	9.25435+00	1.02205+01	A	7.59765+00	9.8134E+00	1.0944E+01
S '	1.39475+33	1.4677E+00	1.52 J6E+00	S	1.4238E+00	1.5049E+00	1.5605E+00
Z	1.31326+00	1.52776+00	1.6252E+00	ž	1.3613E+00	1.59275+00	1-6950E+00
GAME	7.10975-01	7.1823E-01	7.3521E-01	GAME	7.1183E-01	7.2827E-01	7.4683E-01
Ü	1.9361E+01	4.0594E+00	4.0175E+00	Ū	2.0583E+01	4.2481E+00	4.2545E+00
SPEC II	FS	- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
E-	2.38528-01	3.4540E-01	3.8471E-01	£-	2.65425-01	3.7215E-01	4.1003E-01
Ā	5.2298E-01	3. J963E-01		Ä .	4.6917E-01	2.5668E-01	1.8448E-01
A+	2.38495-01	3.4453E-01	3.81235-01	A+	2.6538E-01	3.7018E-01	4.0095E-01
A++	1.09165-35	4.36 JZE-04	1.7407E-03	A++	2.016 JE-05	9.8728E-04	4.5409E-03
A+++	2.28948-14	2.0443E-10	8.5792E-09	A+++	9.5760E-14	2.04956-09	8-92726-08
A++++	3.8339E-28	3.20556-20	1.80016-17	A++++	5.3982E-27	1.2186E-18	1.3188E-15
AV	3.6468E-47		1.8630E-29	. AV	5.6314E-45	2.4682E-31	1.6469E-26
AVI	1.12695-70	1.92585-51	4.7929E-45	AVI	4.25436-68	8.4737E-48	8.9783E-41
AVII	3.	4.8067E-75	6.8251E-66	AVII	0.	7.61225-70	8.2049E-6C
AVIII	j.	0.	4.3092F-91	AVIII	0.	0.	
W 4 1 1 1	9.	V.	4.37255.41	MYIII	٠.	U•	6.7164E-83

P1 =	3.00E+03 N/SQ-M	021= 1.076+0	; M/366	F1 - 2	0.00E+03 N/3U-M	* 021= 8*00E+0)
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	No.						
		STANDING SHOCK	REFLECTED SHOCK	t	- MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	8-3271E+02	6.7203E+03	9.79475+03	Р	9.2590E+02	7.7300E+03	1.1300F+04
T '	6.0595E+01	8.5770E+01	9.8655E+01	T	.6.26885+01	9.1917E+01	1.06698+02
RHO	9.91395+00	4.8207E+01	5.7405E+01	RHO	1.02765+01	4.9765E+01	5.9057E+01
Н	1.84115+32	3.2734E+02	3.9613E+02	н	2.0402E+02	3.6383E+02	4.4092E+02
Ä				Δ .	8.0225E+00	1.0766E+01	
	7.7359E+00	1.0119E+01	1.1299E+01	Š.			1.1905E+01
S	1.4387E+00	1.5234E+00,	1.5807E+00		1.4692E+30	1.5602E+00	1.6194E+00
-2	1.3862E+00	1.6253E+00	- 1.7295E+00	L	1.4373E+00	. 1.6899E+00	1.7934E+00
GAME	7-1248E-01	7.3446E-01	7.4819E-01	GAME	7.1430E-01	7.4625E-01	7.4070E-01
Ų	2.1183E+01	4.3620E+00	4.4216E+00	U	2.2379E+01	4.62625+00	4.6890E+00
SPECI	ES	- MULE FRACTIONS		SPECIES		- MOLE FRACTIONS	
0.001					· · · · · · · · · · · · · · · · · · ·	÷	
E-	2.7858E-01	3.8475E-01	4.2180E-01	E-	3.0426E-01	1: 4.0825E-01	4.4241E-01
Ā	4.4287E-01	2.3201E-01	1.6371E-01	Ā .	3.9153E-01	1.8706E-01	1.3179E-01
Δ+	2.7853E-01	3.8174E-01	4.0717E-01	A+	3.0416E-01	4.0112E-01	4.0918E-01
A++			7.3172E-03	A++	4.8128E-05	3.5653E-03	
	2.7082E-05,	1.5031E-03					1.6613E-02
A+++	1.9148E-13	5.67258-09		A+++	7.3975E-13	4.6401E-08	2.2831E-06
A++++,	1.9650E-26		1.1429E-14	A++++,	2.3854E-25	3.7081E-16	5.1188E-13
AV	4.5718E-44	4.7433E-30	4.9833E-25	AV	2.3758E-42	2.0685E-27,	2.0382F-22
AVI	1.0523E-66	6.1731E-46	1-2556E-38.	AVI	3.0426E-64	4.1305E-42	7.6726E-35
IIVA	э.	3.4081E-67	9-1406E-57	11VA	` 3.1793E-95	9.3972E-62	2.1365E-51
AVIII	o.	7.25578-93	8.3702E-79	LIIVA	0.	1.5174E-85	1.3377E-71
	••		0.00.00.				1033112 11
P1 =	: 5.00E+03 N/SQ-M	, US1= 7.80E+0	3 M/SEC	P1 = 5	5.00E+03 N/Sy-M	. US1= 8.20E+0	D3 M/SEC
P1 =	5.00E+03 N/SQ-M	, US1= 7.80E+0	3 M/SEC	P1 = 5	5.00E+03 N/Sy-M	. US1= 8.20E+0	D3 M/SEC
P1 =				P1 = 5	•		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	· •	MOVING SHOCK	STANUING SHOCK	REFLECTED SMOCK
 P	MOVING SHOCK 8.7872E+02	STANDING SHOCK 7.2204E+03	REFLECTED SHOCK 1.0542E+04	p ·	MOVING SHOCK	STANUING SHOCK 8.2489E+03	REFLECTED SMOCK
P T	MOVING SHOCK 8.7872E+02 6.1633E+01	STANDING SHOCK 7.2204E+03 8.8734E+01	REFLECTED SHOCK 1.0542E+04. 1.0274E+02	P T	MOVING SHOCK 9.7423E+02 6.3763E+01	STANUING SHOCK 8.2489E+03 9.5291E+01	REFLECTED SHOCK 1.2090E+04 1.1061E+02
 P	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01	REFLECTED SHOCK 1.0542E+04. 1.0274E+02 5.8223E+01	Р Т КНО	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01
P T	MOVING SHOCK 8.7872E+02 6.1633E+01	STANDING SHOCK 7.2204E+03 8.8734E+01	REFLECTED SHOCK 1.0542E+04. 1.0274E+02	Р Т Н Н	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02	STANUING SHOCK 8.2489E+03 9.5291E+01	REFLECTED SHOCK 1.2090E+04 1.1061E+02
P T	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01	REFLECTED SHOCK 1.0542E+04. 1.0274E+02 5.8223E+01	Р Т жно Н А	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01
P T	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00	STANDING SHOCK 7-2204E+03 8-8734E+01 4-9083E+01 3-4538E+02 1-0439E+01	REFLECTED SHOCK 1.05426+04. 1.02746+02 5.82236+01 4.16476+02 1.16196+01	Р Т Н Н	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.8269E+02	REFLECTED SMOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02
P T RHO H A	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4538E+00	STANDING SHOCK 7-2204E+03 8-8734E+01 4-9083E+01 3-4538E+02 1-0439E+01 1-5418E+00	REFLECTED SHOCK 1.0542E+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00	Р Т Н Н А S	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4846E+00	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.8269E+02 1.1087E+01 1.5784E+00	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6634E+02 1.2181E+01 1.638E+00
P T RHO H A S	MOVING SHOCK 8-7872E+02 6-1633E+01 1-0101E+01 1-9394E+02 7-8774E+00 1-4538E+00 1-4115E+00	STANDING SHOCK 7-2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+0C 1.6578E+00	REFLECTED SHOCK 1.0542E+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 1.7624E+00	P T KHO H A - S Z	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4846E+00	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00
P T RHO H A S Z GAME	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4538E+00 1.4115E+00 7.1330E-01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+00 1.6578E+00 7.4081E-01	REFLECTED SHOCK 1.0542E+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 1.7624E+00 7.4559E-01	P T KHO H A S Z GAME	MOVING SHOCK 9-7423E+02 6-3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4846E+00 1.4636E+07 7.1551E-01	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.4941E-01	REFLECTED SMOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01
P T RHO, H A S	MOVING SHOCK 8-7872E+02 6-1633E+01 1-0101E+01 1-9394E+02 7-8774E+00 1-4538E+00 1-4115E+00	STANDING SHOCK 7-2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+0C 1.6578E+00	REFLECTED SHOCK 1.0542E+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 1.7624E+00	P T KHO H A - S Z	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4846E+00	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00
P T RHO H A S Z GAME U	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4538E+00 1.415E+00 7.1330E-01 2.1782E+01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+00 1.6578E+00 7.4081E-01 4.4876E+30	REFLECTED SHOCK 1.05426+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 1.7624E+00 7.4559E-01 4.5716E+00	P T HHO H A S Z GAME ^T	MOVING SHOCK 9.7423E+02 6.3763E+01 1.4439E+01 2.1436E+02 8.1716E+00 1.4846E+00 1.4636E+00 7.1551E-01 2.2974E+01	STANUING SHOCK 8.2489E+03 9.529IE+01 5.029IE+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.494IE-01 4.7740E+00	REFLECTED SMOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00
P T RHO H A S Z GAME	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4538E+00 1.415E+00 7.1330E-01 2.1782E+01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+00 1.6578E+00 7.4081E-01	REFLECTED SHOCK 1.05426+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 1.7624E+00 7.4559E-01 4.5716E+00	P T KHO H A S Z GAME	MOVING SHOCK 9.7423E+02 6.3763E+01 1.4439E+01 2.1436E+02 8.1716E+00 1.4846E+00 1.4636E+00 7.1551E-01 2.2974E+01	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.4941E-01	REFLECTED SMOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00
P T RHO. H A S Z GAME U	MOVING SHOCK 8.7872E+02 6-1633E+01 1-0101E+01 1-9394E+02 7.8774E+00 1-4538E+00 1-4115E+00 7-1330E-C1 2-1782E+01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+0C 1.6578E+00 7.4081E-01 4.4876E+00	REFLECTED SHOCK 1.0542E+04. 1.0542E+04. 1.0574E+02 5.8223E+01 4.1647E+02 1.1619E+01 1.6004E+00 1.7624E+00 7.4559E-01 4.5716E+00	P T HHO H A S Z GAME ^T	MOVING SHOCK 9-7423E+02 6-3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4846E+00 1.4636E+07 7.1551E-71 2.2974E+01	STANDING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.0269E+02 1.1007E+01 1.5784E+00 1.7213E+00 7.9941E-01 4.7749E+00	REFLECTED SMOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00
P T RHO. H A S Z GAME U SPECI	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4538E+00 1.415E+00 7.1330E-01 2.1782E+01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+00 1.6578E+00 7.4081E-01 4.4876E+00	REFLECTED SHOCK 1.0542E+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 1.7624E+00 7.4559E-01 4.3259E-01	P T H A S Z GAME U SPECIES	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4846E+00 1.4636E+00 7.1551E-01 2.2974E+01	STANUING SHOCK 8.2489E+03 9.529IE+01 5.029IE+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.494IE-01 4.7749E+00	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00
P T RHO H A S Z GAME U SPECI	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4538E+00 1.4115E+00 7.1330E-01 2.1782E+01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+00 7.4081E-01 4.4876E+00	REFLECTED SHOCK 1.0542E+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 1.7624E+00 7.4559E-01 4.3259E-01 1.4615E-01	P T NHO H A S Z GAME U U SPECIES	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4636E+00 7.1551E-01 2.2974E+01 3.1676E-01 3.6654E-01	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.9941E-01 4.7749E+00	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.6388E+00 1.8247E+00 7.3524E-01 4.8350E+00
P T RHO H A S Z GAME U SPECI	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4538E+00 1.4115E+00 7.1330E+01 2.1782E+01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+00 1.6578E+00 7.4081E+01 4.4876E+30 MULE FRACTIONS 3.9683E+01 2.0870E+01 3.9218E+31	REFLECTED SHOCK 1.0542E+04. 1.0542E+04. 1.0274E+02. 5.8223E+01. 4.1847E+02. 1.1619E+01. 1.6004E+00. 7.4559E-01. 4.3259E-01. 4.3259E-01. 4.0991E-01.	P T KHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 9-74-23E+02 6-3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4846E+00 1.4636E+07 7.1551E-71 2.2974E+01 3.1676E-01 3.6654E-01 3.1664E-01	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.0269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.4941E-01 4.7749E+00 - MOLE FRACTIONS 4.1904E-01 1.6741E-01 4.0807E-01	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00 4.5195E-01 1.1943E-01 4.0528E-01
P T RHO, H A S Z GAME U SPECI	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4135E+00 1.4135E+01 2.1782E+01 1.533E+01 2.9153E-01 4.1698E-01 3.6182E-01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+0C 1.6578E+00 7.4081E-01 4.4876E+30 MULE FRACTIONS 3.9682E-01 2.0870E+01 3.9218E-31 2.3C96E-03	REFLECTED SHOCK 1.0542E+04. 1.0542E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 1.7624E+00 7.4559E-01 4.3259E-01 1.4615E-01 4.0991E-01 1.1340E-02	P T HHO H A S Z GAME U SPECIES	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4636E+02 7.1551E-01 2.2974E+01 3.1676E-01 3.6654E-01 6.3856E-01 6.3856E-01	STANUING SHOCK 8.2489E+03 9.529IE+01 5.029IE+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.494IE-01 4.7749E+00 - MOLE FRACTIONS 4.1904E-01 1.674IE-01 4.0807E-01 5.4807E-01	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00 4.5195E-01 1.1943E-01 4.0528E-01 2.3328E-02
P T RHO H A S Z GAME U SPECI	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4538E+00 1.4115E+00 7.1330E+01 2.1782E+01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+0C 1.6578E+00 7.4081E-01 4.4876E+00	REFLECTED SHOCK 1.0542E+04. 1.0542E+04. 1.0542E+02. 5.8223E+01. 4.1647E+02. 1.1619E+01. 1.6004E+00. 7.4559E-01. 4.3259E-01. 4.3259E-01. 4.0991E-01. 1.1340E-02. 8.6605E-07	P T RHO H A S Z GAME U SPECIES E-A A+A++A+++	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4646E+00 1.4636E+01 2.2974E+01 3.1676E-01 3.6654E-01 3.1646E-01 6.3856E-05 1.4438E-12	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.0269E+02 1.1007E+01 1.5784E+00 1.7213E+00 7.4941E-01 4.7749E+00 - MOLE FRACTIONS 4.1904E-01 1.6741E-01 4.0807E-01 5.4807E-03 1.3313E-07	REFLECTED SHOCK 1.2090E+04 1.061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00 4.5195E-01 1.1943E-01 4.0528E-01 2.3328E-02 5.4987E-06
P T HO H A S Z GAME U SPEC!	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4135E+00 1.4135E+01 2.1782E+01 1.533E+01 2.9153E-01 4.1698E-01 3.6182E-01	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+0C 1.6578E+00 7.4081E-01 4.4876E+00 - MULE FRACTIONS 3.9682E-01 2.0870E-01 3.9218E-01 2.3C96E-03 1.6100E-08 5.3413E-17	REFLECTED SHOCK 1.0542E+04. 1.0542E+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 7.4559E-01 4.5716E+00 4.3259E-01 1.4615E-01 4.0991E-01 1.1340E-02 8.5605E-07 8.5459E-14	P T HHO H A S Z GAME U SPECIES	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4846E+00 1.4636E+00 7.1551E-01 2.2974E+01 3.1676E-01 3.6654E-01 3.164E-01 6.3856E-05 1.4438E-12 8.2771E-25	STANUING SHOCK 8.2489E+03 9.529IE+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.494IE-01 4.7740E+00 - MOLE FRACTIONS 4.1904E-01 1.6741E-01 4.0807E-01 5.4807E-03 1.3313E-07 2.5505E-15	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E+01 4.8350E+00 4.5195E-01 1.1943E-01 4.0528E-01 2.3328E-02 5.4987E-06 2.6208E-12
P T RHO H A S Z GAME U SPECI	MOVING SHOCK 8.7872E+02 6-1633E+01 1-0101E+01 1-9394E+02 7.8774E+00 1.4538E+00 1.415E+00 7.1330E-01 2-1782E+01 4.698E-01 2-9146E-01 3-6182E-05 3-7861E-13	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+0C 1.6578E+00 7.4081E-01 4.4876E+00	REFLECTED SHOCK 1.0542E+04. 1.0542E+04. 1.0542E+02. 5.8223E+01. 4.1647E+02. 1.1619E+01. 1.6004E+00. 7.4559E-01. 4.3259E-01. 4.3259E-01. 4.0991E-01. 1.1340E-02. 8.6605E-07	P T RHO H A S Z GAME U SPECIES E-A A+A++A+++	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4646E+00 1.4636E+01 2.2974E+01 3.1676E-01 3.6654E-01 3.1646E-01 6.3856E-05 1.4438E-12	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.0269E+02 1.1007E+01 1.5784E+00 1.7213E+00 7.4941E-01 4.7749E+00 - MOLE FRACTIONS 4.1904E-01 1.6741E-01 4.0807E-01 5.4807E-03 1.3313E-07	REFLECTED SHOCK 1.2090E+04 1.061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00 4.5195E-01 1.1943E-01 4.0528E-01 2.3328E-02 5.4987E-06
P T HO H A S Z GAME U SPEC!	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.415E+00 1.415E+01 2.1782E+01 4.1698E-01 2.9146E-01 3.6182E-05 3.7861E-13 6.9815E-26 3.4986E-43	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+0C 1.6578E+00 7.4081E-01 4.4876E+30 - MULE FRACTIONS 3.9682E-01 2.0870E+01 3.9218E-31 2.3C96E-03 1.6100E-08 5.3413E-17 9.7163E-29	REFLECTED SHOCK 1.0542E+04. 1.0542E+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 1.7624E+00 7.4559E-01 4.5716E+00 4.3259E-01 1.4615E-01 4.0991E-01 1.1340E-02 8.6605E-07 8.5459E-14 1.1972E-23	P T HHO H A S Z GAME U SPECIES	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4846E+00 1.4636E+00 7.1551E-01 2.2974E+01 3.1676E-01 3.6654E-01 3.164E-01 6.3856E-05 1.4438E-12 8.2771E-25	STANUING SHOCK 8.2489E+03 9.529IE+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.494IE-01 4.7740E+00 - MOLE FRACTIONS 4.1904E-01 1.6741E-01 4.0807E-01 5.4807E-03 1.3313E-07 2.5505E-15	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00 4.5195E-01 1.1943E-01 4.0528E-01 2.3328E-02 5.4987E-06 2.6208E-12 2.7290E-21
P T HO H A S Z GAME U SPECI E-A A+ A++++ A++++	MOVING SHOCK 8.7872E+02 6-1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.4538E+00 1.4115E+00 7.1330E-01 2.1782E+01 MES	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+0C 1.6578E+00 7.4081E-01 4.4876E+00	REFLECTED SHOCK 1.0542E+04. 1.0542E+04. 1.0542E+02. 5.8223E+01. 4.1647E+02. 1.1619E+01. 1.6004E+00. 7.4559E-01. 4.3259E-01. 4.0991E-01. 1.1340E-02. 8.6605E-07. 8.5459E-14. 1.1972E-23. 1.2566E-36.	P T HHO H A S Z GAME U U SPECIES E- A A+++++++++++++++++++++++++++++++++	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4846E+00 1.4636E+07 7.1551E-71 2.2974E+01 3.1676E-01 3.6654E-01 3.1664E-01 6.3856E-05 1.4438E-12 8.2771E-25 1.7749E-41 6.4169E-63	STANUING SHOCK 8.2489E+03 9.5291E+01 5.0291E+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.4941E-01 4.7749E+00	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00 4.5195E-01 1.1943E-01 4.052BE-01 2.3328E-02 5.4987E-06 2.6208E-12 2.7290E-12 3.3347E-33
P T RHO, H A S Z GAME U SPEC!	MOVING SHOCK 8.7872E+02 6.1633E+01 1.0101E+01 1.9394E+02 7.8774E+00 1.415E+00 1.415E+01 2.1782E+01 4.1698E-01 2.9146E-01 3.6182E-05 3.7861E-13 6.9815E-26 3.4986E-43	STANDING SHOCK 7.2204E+03 8.8734E+01 4.9083E+01 3.4538E+02 1.0439E+01 1.5418E+0C 1.6578E+00 7.4081E-01 4.4876E+30 - MULE FRACTIONS 3.9682E-01 2.0870E+01 3.9218E-31 2.3C96E-03 1.6100E-08 5.3413E-17 9.7163E-29	REFLECTED SHOCK 1.0542E+04. 1.0542E+04. 1.0274E+02 5.8223E+01 4.1847E+02 1.1619E+01 1.6004E+00 1.7624E+00 7.4559E-01 4.5716E+00 4.3259E-01 1.4615E-01 4.0991E-01 1.1340E-02 8.6605E-07 8.5459E-14 1.1972E-23	P T KHO H A S Z GAME U SPECIES E- A A+ A+++ A+++ AV AVI	MOVING SHOCK 9.7423E+02 6.3763E+01 1.0439E+01 2.1436E+02 8.1716E+00 1.4636E+02 7.1551E-01 2.2974E+01 3.1676E-01 3.6654E-01 3.1664E-01 6.3856E-05 1.4438E-12 8.2771E-25 1.7745E-41	\$TANUING \$HOCK 8.2489E+03 9.529IE+01 5.029IE+01 3.8269E+02 1.1087E+01 1.5784E+00 1.7213E+00 7.494E-01 4.7749E+00 4.7749E+00 1.6741E-01 4.0807E-01 5.4807E-03 1.3313E-07 2.5505E-15 4.3241E-26	REFLECTED SHOCK 1.2090E+04 1.1061E+02 5.9903E+01 4.6434E+02 1.2181E+01 1.638BE+00 1.8247E+00 7.3524E-01 4.8350E+00 4.5195E-01 1.1943E-01 4.0528E-01 2.3328E-02 5.4987E-06 2.6208E-12 2.7290E-21

PL =	5.00E+03 N/SQ-M	. US1= 8.40E+0	3 M/SEC	P1 = 5	.00E+03 N/SU-M	. USI= 8.80E+0	3 M/SEC
_	MOVING SHOCK					STANDING SHUCK	REFLECTED SHOCK
P	1.0237E+03	8.7656E+03	1.2894E+04	P	1.1268E+03	9.8845E+03	1.4563E+04
T	6.4864E+01	9.8816E+01	1.1432E+02	Ţ	6.7170E+01	1.0589E+02	1.2127E+02
RHO	1.0590E+01	5.0626E+01	6.0800E+01	RHO	1.0857E+01	5.1577E+01	6.2646E+01
H	2.2495E+02	4.0190E+02	4.8821E+02	Ĥ.	2.46915+02	4.42246+02	5.37535+02
A	8.3252E+00	1.1391E+01	1.2448E+01	A	8.6488E+00	1.1920E+01	1.2984E+01
S	1.5003E+00	1.5967E+00	1.6577E+00	S	1.5320E+00	1.6320E+00	1.6955E+00
2	1.4904E+00	1.7522E+00	1.8552E+00	2	1.54525+00	1.8099E+30	1.9168E+00
GAME	7.1696E-01	7.4935E-01	7.3067E-01	GAME	7.2072E-01	7.4140E-01	7.25275-01
U	2.3567E+01	4.9540E+00	4 • 972 7E +00	U	2.47635+01	5.218UE+00	5.2224E+00
SPECIE	S	- MOLE FRACTIONS		SPECIES		- MULE FRACTIONS	
E -	3.2903E-01	4.2928E-01	4.6098E-01	E	3.52825-31	4.4749E-01	4.7830E-01
A	3.4203E-01	1.4975E-01	1.0914E-01	A	2.9451E-01	1.2227E-01	9.2407E-02
A+ :	3.2886E-01	4.1264E-01	3.98816-01	A +	3.5252E-01 -	4.1299E-01	3.8033E-01
A++	8.4593E-05	8.3203E-03	3.1067E-02	A++	1.4875E-04	1.7249E-02	4.8920E-02
A+++	2.8063E-12	3.7319E-07	1.1758E-05	A • • •	1.0722E-11	2.3416E-06	4.1250E-05
4+++	2.8308E-24	1.6835E-14	1.0379E-11	A * * * *	3.353dE-23	4.9523E-13	1.17736-10
AV	1.2533E-40	8.4772E-25	2.6426E-20	AV	6.3564E-39	1.7796E-22	1.2086E-18
AV[1.1075E-61	2.4886E-38	9.1277E-32	AVI	3.3745E-59	5.7750E-35	2.4543E-29
IIVA	3.6173E-90	2.1444E-56	5.0106E-47	AVII	1.3350E-86	1.2713E-51	1-4484E-43
TIIVA	0.	· 2.3364E-78	1.0065E-65	AVIII) .	5.9658E-72	4.63J7E-61
Pl =	5.00E+03 N/Sü-M	, USI= 8.60E+0	3 M/SEC	P1 = 5	-00E+33 N/5U-M	, US1= 9.30E+0	3 M/SEC
				•			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.0749E+03	9.3317E+03	1.3732E+04	Р	1.1797E+03	1.0447E+04	1.5395E+04
T	6.6000E+01	1.0239E+02	1.1789E+02	ī	6.83d6E+01	1.0927E+02	1.2455E+02
RHO .	1.0732E+01	5.1165E+01	6.17565+01	RHO	1.09665+01	5.2017E+01	6.3440E+01
н .	2.3581E+02	4.2199E+32	5.12/7E+02	H	2.5826E+32	4.6295E+02	5.6251E+02
A	8.48435+00	1.1666E+01	1.2717E+01	A	8.81995+00	1.2161E+01	1.3257E+01
S	1.5161E+00	1.6143E+00	1.6768E+30	S	1.5480E+00	1.6496E+07	1.7145E+00
Z	1.51765+00	1.7813E+00	1.8860E+00	ı	1.5731E+06	1.0380E+00	1.9484F+00
GAME	7.186 4 E-01	7.4622E-01	7.2733E-01	GAME	7.2311E-01	7.36326-01	7.2426E-01
υ	2.4172E+01	5.0757E+U0	5.10075+00	U	2.5352E+01	5.3508E+00	5.3260E+00
SPECIE	s	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	
E-	3.4106E-01	4.3862E-01	4.6978E-01	E- '	3.6431E-01	4.5592F-01	4.8676E-01
Α .	3.1800E-01	1.3497E-01	1.00228-01	Α .	2.7158E-01	1.1152E-01	8.5257E-02
Ä+	3.4083E-01	4.1419E-01	3.9024E-01	Ä+	3.6392E-01	4.0919E-01	3.6928E-01
A++	1.1213E-04	1.2215E-02	3.9735E-02	A++	1.97845-04	2.3359E-02	5.8634E-02
A+++	5.47446-12	9.7575E-07	2.3004E-05	A+++	2.11296-11	5.1240E-06	6.9688E-05
A++++.	9.67328-24	9.85335-14	3.8670E-11	A++++	1.1668E-22	2.1163E-12	3.2282E-10
AV	8.7287E-40	9.87335-14 1.3627E-23	2.01566-19	AV	4.5542E-38	1.7825E-21	6.1657E-18
IVA	1.8171E-60			IVA	5.8169E-58	1.6397E-33	2.6895E-28
IIVA	1.81665-88	1.4211E-36 6.6463E-54	1.7784E-30 3.4365E-45	AVII	7.34415-65	1.4647E-49	4.41546-42
IJIVA	0.	5.1605E-75	2.9881E-63	AVIII).	3.494dE-69	4.6645E-59
~ * * * *	., .	J. 1007C-17	6 - 7001 L-UJ		· •	3.47.405.07	

P1 = 5	.00E+03 N/SU-M	. US1 = 9.20E+0	3 M/SEC	P1 =	5.00E+03 N/SQ-M	, US1= 9.60E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
· P	1.2337E+03	1.1019E+04	1.6214E+04	P	1.3449E+03	1.2173E+04	1.7880E+04
Ť	6.9656E+01	1.1253E+02	1.2755E+02	Ť	7.2404E+01	1.1863E+02	1.3358E+02
RHO	1.1061E+01	5.2480E+01	6.4256E+01	RHO	1.1200E+01	5.3395E+01	6.5523E+01
н				H	2.9380E+02	5.27786+02	6.3960E+02
A	2+6986E+02	4.8412E+02	5.8734E+02	Ä	9.38232+00	1.2867E+01	1.4071E+01
Š	6-9984E+00	1.2396E+01	1.3517E+01	ŝ		1.7020E+00	1.7693E+00
ì	1.5642E+00	1.6671E+00	1.7321E+00	ž	1.5966E+00		
GAME	1.6013E+00	1.8658E+00	1.9783E+00		1.6585E+00	1.92196+00	2.0429E+00
	7-2592E-01	7.3190E-01	7.2408E-01	GAME	7.3305E-01	7.2619E-01	7.2552E-01
U	2.5937E+01	5.4727E+00	5.3923E+00	·	2.7098E+01	5.6907E+00	5.5921E+00
SPECIES	· ·	- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
٤-	3.7552E-01	4.6404E-01	4.9452E-01	E~	3.9706E-01	4.7968E-01	5.1051E-01
Ã	2.49225-01	1.0234E-01	7.9175E-02	Ā	2.0636E-01	8.72695-02	6.7535E-02
Ã.	3.7500E-01	4.0321E-01	3.5819E-01	Ā÷	3.9610E-01	3.8646E-01	3.3364E-01
A++	2.6430E-04	3.0398E-02	6.8004E-02	A++	4.8146E-04	4.6563E-02	8.8068E-02
A+++	4.2136E-11			A+++	1.7704E-10	3.2913E-05	2.4516E-04
A++++		1.0263E-05	1.0869E-04	A++++	5.8032E-21	6.9882E-11	3.7971E-09
AV	4.1417E-22	7.7427E-12	7.6598E-10	. AV			
AVI	3.3476E-37	1.4055E-20	2.5073E-17		2.2138E-35	4.7545E-19	3.4178E-16
AVII	1.0122E-56	3.3129E-32	2.1257E-27	IVA IIVA	4.6925E-54	5-6685E-30	
	3.5547E-83	1.0482E-47	8.4745E-41		2.8579E-79	1.5768E-44	2.1202E-38
IIIVA	0.	1.0896E-66	2.52798-57	. AVIII	0.	2.0599E-62	4.4482E-54
			•				•
•							•
P1 = 5	6-00E+03 N/SQ-N	, US1= 9.40E+0	3 M/SEC	P1 =	5.00E+03 N/SQ-M	, US1= 9.80E+0	3 M/SEC
P1 = 5	5.00E+03 N/SQ-N	, US1= 9-40E+0	3 M/SEC	P1 =	5.00E+03 N/SQ-M		3 M/SEC
	5.00E+03 N/SQ-H MOVING SHOCK		3 M/SEC		MOVING SHOCK	. US1= 9.80E+0	3 M/SEC
ρ				. Р.			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	MOVING SHOCK 1.2888E+03	STANDING SHOCK 1.1595E+04 1.1564E+02	REFLECTED SHOCK 1.7048E+04 1.3059E+02	. Р.	MOVING SHOCK 1.4020E+03	STANDING SHOCK	REFLECTED SHOCK 1.8698E+04
P T	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01	STANDING SHOCK 1.1595E+04 1.1564E+02 5.2948E+01	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01	Р Т	MOVING SHOCK 1.4029E+03 7.3910E+01	STANDING SHOCK 1.2749E+04 1.2150E+02	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01
P T , RHO	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02	STANDING SHOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02	P T CHR	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01	STANDING SHOCK 1.2749E+04 1.2150E+02 5.3798E+01 5.5024E+02	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02
P T , RHO H	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00	STANDING SHOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02 1.2631E+01	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01	Р Т СНЯ Н	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00	STANDING SHOCK 1.2749E+04 1.2150E+02 5.379E+01 5.5024E+02 1.3106E+01	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01
P T. RHO H A S	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00 1.5804E+00	STANDING SMOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02 1.2631E+01 1.6846E+00	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00	P T RHJ H A S	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00	STANDING SHOCK 1.2749E+04 1.2150E+02 5.3798E+01 5.5024E+02 1.3106E+01 1.7195E+00	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00
P T. RHO H A S	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00 1.5804E+00 1.6298E+00	STANDING SHOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02 1.2631E+01 1.6846E+00 1.993TE+00	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00	P T HO H A S Z	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6873E+00	STANDING SHOCK 1.2749E+04 1.2150E+02 5.3798E+01 5.5024E+02 1.3106E+01 1.7195E+00 1.9505E+00	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00
P T. RHO H A S	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00 1.5804E+00	STANDING SMOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02 1.2631E+01 1.6846E+00	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00	P T RHJ H A S	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00	STANDING SHOCK 1.2749E+04 1.2150E+02 5.3798E+01 5.5024E+02 1.3106E+01 1.7195E+00	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00
P T. RHO H A S Z GAME	MOVING SHOCK 1-2888E+03 7-0991E+01 1-1139E+01 2-8171E+02 9-1855E+00 1-5804E+00 1-6298E+00 7-2922E-01	STANDING SHOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02 1.2631E+01 1.6846E+00 1.8937E+00 7.2852E-01	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01	P T RHO H A S Z GAME	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6873E+00 7.3748E-01	STANDING SHOCK 1.2749£+04 1.2150£+02 5.3798£+01 5.5024£+02 1.3106£+01 1.7195E+00 1.9505E+00 7.2478E-01	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00 7.2688E+01
P T. RHO H A S Z GAME	MOVING SHOCK 1-2888E+03 7-0991E+01 1-1139E+01 2-8171E+02 9-1855E+00 1-5804E+00 1-6298E+00 7-2922E-01 2-6519E+01	STANDING SHOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02 1.2631E+01 1.6846E+00 1.8937E+00 7.2852E-01	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00	P T RHO H A S Z GAME	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6873E+00 7.3748E-01 2.7673E+01	STANDING SHOCK 1.2749£+04 1.2150£+02 5.3798£+01 5.5024£+02 1.3106£+01 1.7195E+00 1.9505E+00 7.2478E-01	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00 7.2688E-01 5.6827E+00
PT.RHOHAASCAMEUU	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00 1.5804E+00 1.6298E+00 7.2922E-01 2.6519E+01	STANDING SHOCK 1-1595E+04 1-1564E+02 5-2948E+01 5-0573E+02 1-2631E+01 1-8846E+00 1-9937E+00 7-2852E-01 5-5857E+00	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00	P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6873E+00 7.3748E-01 2.7673E+01	STANDING SHOCK 1.2749£04 1.2150£02 5.3798£01 5.5024£02 1.3106£01 1.7195£00 1.9505£00 7.2478£01 5.7899£00	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00 7.2688E-01 5.6827E+00
PTRHOHASSLAMEU	MOVING SHOCK 1-2888E+03 7-0991E+01 1-1139E+01 2-8171E+02 9-1855E+00 1-5804E+00 1-6298E+00 7-2922E-01 2-6519E+01	STANDING SHOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02 1.2631E+01 1.6846E+00 1.8937E+00 7.2852E-01 5.5857E+00	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00	P T RHD H A S Z GAME U SPECIE E- A	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 7.3748E-01 2.7673E+01 S	STANDING SHOCK 1.2749E+04 1.2150E+02 5.3798E+01 5.5024E+02 1.3106E+01 1.7195E+00 7.2478E-01 5.7899E+00 - MOLE FRACTIONS 4.8730E-01 8.0873E-02	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.9352E+01 1.7878E+00 2.0760E+00 7.2688E-01 5.6827E+00
PT.RHOHAASCAMEUU	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00 1.5804E+00 1.6298E+00 7.2922E-01 2.6519E+01	STANDING SMOCK 1-1595E+04 1-1564E+02 5-2948E+01 5-0573E+02 1-2631E+01 1-0846E+00 1-0846E+00 1-0845E+01 5-5857E+00	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00	P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6873E+00 7.3748E-01 2.7673E+01	STANDING SHOCK 1.2749£04 1.2150£02 5.3798£01 5.5024£02 1.3106£01 1.7195£00 1.9505£00 7.2478£01 5.7899£00	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00 7.2688E-01 5.6827E+00
PTRHOHASSLAMEU	MOVING SHOCK 1-2888E+03 7-0991E+01 1-1139E+01 2-8171E+02 9-1855E+00 1-5804E+00 1-6298E+00 7-2922E-01 2-6519E+01	STANDING SHOCK 1-1595E+04 1-1564E+02 5-2948E+01 5-0573E+02 1-2631E+01 1-0846E+00 7-2852E-01 5-5857E+00	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00	P T RHD H A S Z GAME U SPECIE E- A	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 7.3748E-01 2.7673E+01 S	STANDING SHOCK 1.2749E+04 1.2150E+02 5.3798E+01 5.5024E+02 1.3106E+01 1.7195E+00 7.2478E-01 5.7899E+00 - MOLE FRACTIONS 4.8730E-01 8.0873E-02	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.9352E+01 1.7878E+00 2.0760E+00 7.2688E-01 5.6827E+00
P T RHD H A S C GAME U SPECIES E- A	MOVING SHOCK 1-2888E+03 7-0991E+01 1-1139E+01 2-8171E+02 9-1855E+00 1-5804E+00 1-6298E+00 7-2922E-01 2-6519E+01	STANDING SHOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02 1.2631E+01 1.6846E+00 1.9937E+00 7.2852E-01 5.5857E+00 - MOLE FRACTIONS 4.7194E-01 9.4350E-02 3.9550E-01	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00	P T RHO H A S Z GAME U SPECIE E- A A+	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6873E+01 2.7673E+01 S	STANDING SHOCK 1.2749£+04 1.2150£+02 5.3798£+01 5.5024£+02 1.3106£+01 1.7195E+00 1.9505£+00 7.2478E-01 5.7899£+00 - MOLE FRACTIONS 4.8730E-01 8.0873E-02 3.7640E-01	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00 7.2688E+01 5.6827E+00
P T RHD H A S L GAME U SPECIES E- A A+ A++	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00 1.5804E+00 1.6298E+00 7.2922E-01 2.6519E+01 3.8645E-01 2.2746E-01 3.8574E-01 3.5533E-04	STANDING SHOCK 1-1595E+04 1-1564E+02 5-2948E+01 5-0573E+02 1-2631E+01 1-0846E+00 1-0837E+00 7-2852E-01 5-5857E+00	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00	P T RHD H A S Z GAME U SPECIE E- A A+ A++	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6873E+00 7.3748E-01 2.7673E+01 S,	STANDING SHOCK 1.2749E+04 1.2150E+02 5.3798E+01 5.5024E+02 1.3106E+01 1.7195E+00 1.9505E+00 7.2478E-01 5.7899E+00 - MOLE FRACTIONS 4.8730E-01 8.0873E-02 3.7640E-01 5.5369E-02	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00 7.2688E-01 5.6827E+00 5.1830E-01 6.2214E-02 3.2101E-01 9.8120E-02
P T RHO H A S L GAME U SPECIES E-A A++++	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00 1.5804E+00 1.6298E+00 7.2922E-01 2.6519E+01 3.8645E-01 2.2746E-01 3.8574E-01 3.5534E-04 8.5564E-11 1.5302E-21	STANDING SHOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02 1.2631E+01 1.6846E+00 1.8937E+00 7.2852E-01 5.5857E+00 - MOLE FRACTIONS 4.7194E-01 9.4350E-02 3.9550E-01 3.8190E-02 1.9006E-05	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00 5.0255E-01 7.3192E-02 3.4612E-01 7.7967E-02 1.6593E-04	P T RHJ H A S Z GAME U SPECIE E- A A+ A++	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6129E+00 1.6129E+01 2.7673E+01 S	STANDING SHOCK 1.2749£+04 1.2150£+02 5.3798£+01 5.5024£+02 1.3106£+01 1.7195£+00 1.9505£+00 7.2478E-01 5.7899£+00 - MOLE FRACTIONS 4.8730E-01 8.0873E-02 3.7640E-01 5.53687E-05 5.3887E-05	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00 7.2688E-01 5.6827E+00
P T RHO H A S C GAME U SPECIES E-A+A++++A++++	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00 1.5804E+00 1.6298E+00 7.2922E-01 2.6519E+01 3.8645E-01 2.2746E-01 3.8574E-01 3.5533E-04 8.5564E-11 1.5302E-21 2.6991E-36	STANDING SHOCK 1-1595E+04 1-1564E+02 5-2948E+01 5-0573E+02 1-2631E+01 1-0846E+00 1-9937E+00 7-2852E-01 5-5857E+00 - MOLE FRACTIONS 4-7194E-01 9-4350E-02 3-9550E-01 3-8190E-02 2-4674E-11 8-9530E-20	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00 5.0255E-01 7.3192E-02 3.4612E-01 7.7967E-02 1.6593E-04 1.7549E-09 9.6759E-17	P T RHD H A S Z GAME U SPECIE E- A A+ A++ A+++	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6129E+00 1.3748E-01 2.7673E+01 S 4.0734E-01 1.8597E-01 4.0602E-01 6.5692E-04 3.7572E-10 2.3014E-20 1.9426E-34	STANDING SHOCK 1.27496+04 1.21506+02 5.37986+01 5.50246+02 1.31066+01 1.71956+00 7.24786-01 5.78996+00 - MOLE FRACTIONS 4.8730E-01 8.08738-02 3.7640E-01 5.53696-02 5.38876-05	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00 7.2688E-01 5.6827E+00 5.1830E-01 6.2214E-02 3.2101E-01 9.8120E-02 3.5106E-04 7.770E-09 1.1064E-15
P T RHD H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00 1.5804E+00 1.6298E+00 7.2922E-01 2.6519E+01 3.8645E-01 3.8574E-01 3.5533E-04 8.5564E-11 1.5302E-21 2.6991E-36 2.2258E-55	STANDING SHOCK 1.1595E+04 1.1564E+02 5.2948E+01 5.0573E+02 1.2631E+01 1.6846E+00 1.8937E+00 7.2852E-01 5.5857E+00 - MOLE FRACTIONS 4.7194E-01 9.4350E-02 3.8190E-02 1.9006E-05 2.4674E-11 8.9530E-20 4.9322E-31	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00 5.0255E-01 7.3192E-02 3.6012E-01 7.7967E-02 1.6593E-04 1.7549E-09 9.6759E-17	P T RHD H A S Z GAME U SPECIE E- A A+ A++ A+++ A+++	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6873E+00 7.3748E-01 2.7673E+01 S	STANDING SHOCK 1.2749£+04 1.2150£+02 5.3798£+01 5.5024£+02 1.3106£+01 1.7195£+00 1.9505£+00 7.2478E-01 5.7899£+00 - MOLE FRACTIONS 4.8730E-01 8.0873E-02 3.7640E-01 5.5369£-02 5.3887E-05 1.7927E-10 2.1657E-18 5.270E-29	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00 7.2688E+01 5.6827E+00 5.1830E+01 6.2214E+02 3.2101E+01 9.8120E+02 3.5106E+04 7.770E+09 1.1064E+15 5.7647E+25
P T RHO H A S C GAME U SPECIES E A A + A + + + A + + + + A V I	MOVING SHOCK 1.2888E+03 7.0991E+01 1.1139E+01 2.8171E+02 9.1855E+00 1.5804E+00 1.6298E+00 7.2922E-01 2.6519E+01 3.8645E-01 2.2746E-01 3.8574E-01 3.5533E-04 8.5564E-11 1.5302E-21 2.6991E-36	STANDING SHOCK 1-1595E+04 1-1564E+02 5-2948E+01 5-0573E+02 1-2631E+01 1-0846E+00 1-9937E+00 7-2852E-01 5-5857E+00 - MOLE FRACTIONS 4-7194E-01 9-4350E-02 3-9550E-01 3-8190E-02 2-4674E-11 8-9530E-20	REFLECTED SHOCK 1.7048E+04 1.3059E+02 6.4942E+01 6.1319E+02 1.3791E+01 1.7506E+00 2.0103E+00 7.2454E-01 5.4897E+00 5.0255E-01 7.3192E-02 3.4612E-01 7.7967E-02 1.6593E-04 1.7549E-09 9.6759E-17	P T RHD H A S GAME U SPECIE E- A A+ A++ A+++ AV	MOVING SHOCK 1.4020E+03 7.3910E+01 1.1242E+01 3.0615E+02 9.5901E+00 1.6129E+00 1.6873E+01 2.7673E+01 S 4.0734E-01 1.8597E-01 4.0602E-01 6.5892E-04 3.7572E-10 2.3014E-20 1.9426E-34 1.0847E-52	STANDING SHOCK 1.2749E+04 1.2150E+02 5.3798E+01 5.5024E+02 1.3106E+01 1.7195E+00 7.2478E-01 5.7899E+00 - MOLE FRACTIONS 4.8730E-01 8.0873E-02 3.7640E-01 5.5369E-02 5.3887E-05 1.7927E-10 2.1657E-18	REFLECTED SHOCK 1.8698E+04 1.3650E+02 6.5983E+01 6.6625E+02 1.4352E+01 1.7878E+00 2.0760E+00 7.2688E-01 5.6827E+00 5.1830E-01 6.2214E-02 3.2101E-01 9.8120E-02 3.5106E-04 7.770E-09 1.1064E-15

p₁ = 5 kN/ m²

P1 = 5.00E+03 N/SQ-N.

US1= 1.00E+04 M/SEC

P1 = 5.00E+03 N/SQ-M, US1= 1.00E+04 M/SEC	ht = 2*00E+03 N/26-4*
HOWENCE CHOCK CYANOLING CHOCK DEFLECTED CHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	P 1.5790E+03 1.4414E+04 2.1064E+04
P 1.4601E+03 1.3317E+04 1.9503E+04	
T 7.5525E+01 1.2427E+02 1.3940E+02	
RHD 1.1266E+01 5.4136E+01 6.6313E+01	RHO 1.1251E+01 5.4549E+01 6.6550E+01
H 3.1874E+02 5.7310E+02 6.9346E+02	H -3.4466E+02 6.1992E+02 7.4983E+02
A 9.8099E+00 1.3347E+01 1.4638E+01	A 1.0287E+01 1.3837E+01 1.5227E+01
S = 7 . 1.6292E+00 + 7 1.7370E+00 1.8065E+00	S 1.6617E+00 1.7723E+00 1.8447E+00
ZV. 7161E+00 1.9795E+00 2.1098E+00	2 1.7728E+00 2.0392E+00 2.1800E+00
GAME 7.4252E-01 7.2415E-01 7.2856E-01	GAME 7.5401E-01 7.2463E-01 7.3258E-01
U 2.8243E+01 5.8847E+00 5.7796E+00	U 2.9370E+01 6.0654E+00 6.0085E+00
SPECIES MULE FRACTIONS	SPECIES MOLE FRACTIONS
E- 4.1727E-01' 4.9483E-01 5.2602E-01	E- 4.3591E-01 5.0962E-01 5.4128E-01
A 1.6637E-01 7.5000E-02 5.7128E-02	A 1.3001E-01 6.4409E-02 4.7561E-02
A+ . 4.1544E-01' . 3.6560E-01 3.0817E-01'	A+ 4.3225E-01 3.4251E-01 2.8196E-01
A++ 9.1267E-04- 6.4486E-02 1.0819E-01	A++ 1.8264E-03 8.3279E-02 1.2828E-01
A+++ 8.2224E-10 8.4208E-05 4.9161E-04	A+++ 4.3788E-09 1.8419E-04 9.1576E-04
A++++ 9.6492E-20 4.2362E-10 1.5295E-08	2 22215 12 1 24/75 20 5 42575-00
	AV 2.2460E-31 1.032dE-16 2.7342E-14
	AVI 2.8435E-48 1.5408E-26 6.8006E-23
AVI 2.8730E-51 4.0224E-28 3.0186E-24	
AVII 2.6119E-75 6.8624E-42 2.7562E-36	AVII 4.2784E-71 1.2482E-39 2.3903E-34
AVIII 0. 7.4318E-59 3.2220E-51	AVIII 0. 8.3586E-56 1.3515E-48
and the second s	19、克克德·克尔尔·克尔尔·克尔尔·克尔尔尔尔·特尔
	·
P1 = 5.00E+03 N/SQ-M. US1= 1.02E+04 M/SEC	P1 = 5.00E+03 N/SU-M. US1= 1.06E+04 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 1.5191E+03 1.3873E+04 2.0287E+04	P. 1.6397E+03. 1.4924E+04 .2.1770E+04
7.7270E+01 1.2696E+02 1.4227E+02	T 8.1268E+01 1.3213E+02 1.4801E+02
RHO 1.1269E+01 5.4390E+01 6.6502E+01	RHD 1.1203E+01 5.4567E+01 6.6389E+01
H 3.3158E+02 5.9633E+02 7.2111E+02	H 3.5799E+02 6.4389E+02 7.7824E+02
A 1.0042E+01 1.3591E+01 1.4928E+01	A 1.0546E+01 1.4087E+01 1.5522E+01
S 1.6455E+00 1.7546E+00 1.8253E+00	\$ 1.6783E+00 1.7902E+00 1.8637E+00
Z 1.7446F+00 2.0091E+00 2.1442E+00	Z 1.8010E+00 2.0700E+00 2.2154E+00
GAME 7.4811E-01 7.2414E-01 7.3046E-01	GAME 7.5983E-01 7.2552E-01 7.3474E-01
U. 2.8809E+01 35.9761E+00 5.8772E+00	U 2.9925E+01 6.1488E+00 6.1026E+00
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E- +: 2681E-01 5.0227E-01 5.3363E-01	E- 4.4477E-01 5.1691E-01 5.4862E-01
A 1.4767E-01 6.9538E-02 5.2279E-02	A 1.1313E-01 5.9529E-02 4.3169E-02
A+ 4.2424E-01	A+' 4.3943E-01 3.3046E-01 2.6902E-01
A++ 1.2816E-03 7.3816E-02 1.1818E-01	A++ 2.6666E-03 9.2833E-02 1.3798E-01
4 1.7010C_03	
1 26205-00 1 26505-04 6 76425-04	
A+++ 1.8629E-09 1.2658E-04 6.7462E-04	A+++ 1.0950E-08 2.6088E-04 1.2148E-03
A++++ 4.2949E-19 9.3454E-10 2.9053E-08	A++++ 1.0856E-17 3.8642E-09 9.7058E-08
A++++ 4.2949E-19 9.3454E-10 2.9053E-08 AV 1.9603E-32 3.1319E-17 9.7242E-15	A++++ 1.0856E-17 3.8642E-09 9.7058E-08 AV 3.1268E-30 3.1575E-16 7.1729E-14
A++++ 4.2949E-19 9.3454E-10 2.9053E-08 AV 1.9603E-32 3.1319E-17 9.7242E-15 AVI 8.6122E-50 2.6527E-27 1.4581E-23	A++++ 1.0856E-17 3.8642E-09 9.7058E-08 AV 3.1268E-30 3.1575E-16 7.1729E-14 AVI 1.2942E-46, 8.0162E-26 2.8641E-22
A++++ 4.2999E-19 9.3454E-10 2.9053E-08 AV 1.9603E-32 3.1319E-17 9.7242E-15 AVI 8.6122E-50 2.6527E-27 1.4581E-23 AVII 3.2397E-73 1.3109E-40 2.6328E-35	A++++ 1.0856E-17 3.8642E-09 9.7058E-08 AV 3.1268E-30 3.1575E-16 7.1729E-14 AVI 1.2942E-46 8.0162E-26 2.8641E-22 AVII 1.0119E-68 1.3141E-38 1.8725E-33
A++++ 4.2949E-19 9.3454E-10 2.9053E-08 AV 1.9603E-32 3.1319E-17 9.7242E-15 AVI 8.6122E-50 2.6527E-27 1.4581E-23	A+++ 1.0856E-17 3.8642E-09 9.7058E-08 AV 3.1268E-30 3.1575E-16 7.1729E-14 AVI 1.2942E-46 8.0162E-26 2.8641E-22

P1 =	5.00E+03 N/SQ-M	, US1= 1.08E+0	4 M/SEC	P1 =	5.00E+03 N/SQ-M	. US1= 1.15E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
				ρ.	1.9253E+03	1.7201E+04	2.4950E+04
· 1	1.70148+03	1.5441E+04	2.2494E+04	Ţ	9.1994E+01		
•	8.3436E+01	1.3465E+02	1.5086E+02			1.4339E+02	1.6102E+02
RHO	1.1162E+01	5.4579E+01	6.6233E+01	RHO.	1.0953E+01	5.4191E+01	6.5162E+01
Н	3.7156E+02	6.6816E+02	8.0710E+02	н.	4-2102E+02	7.5640E+02	9.1220E+02
A	1.0793E+01	1.4339E+01	1.5820E+01	<u>.</u>	1.1542E+01	1.5248E+01	1.6884E+01
S	1.6937E+00	1.8079E+00	1.8827E+00	S	1.7482E+00	1.8705E+00	1.9490E+00
Z.	1.8269E+00	2.1011E+00	2.2511E+00	Z	1.9108E+00	2.2137E+00	2.3780E+00
GAME	7.6417E-01	7.2671E-01	7.3697E-01	GAME	7.5781E-01	7.3254E-01	7.4454E-01
U	3.0475E+01	6.2404E+00	6.1993E+00	U	3.2390E+01	6.5547E+00	6.5518F+00
SPEC 1E	s	- MOLE FRACTIONS		SPEC IE	s	- MOLE FRACTIONS	
E-	4.52616-01	5.2406E-01	5.5578E-QL	E-	4.7667E-01	5.4826E-01	5.7947E-01
A	9.8638E-02		3.9062E-02	Ā	6-0552E-02	4.0769E-02	2.6657E-02
		5.4969E-02		Ä÷	4.4889E-01	2.7466E-01	2.1203E-01
Α+	4.4489E-01	3.1825E-01	2.5614E-01				
A++	3.8596E-03.	1.0236E-01	1.4743E-01	A++	1.3886E-02	1.3532E-01	1.7809E-01
A+++	2.6921E-08	3.6094E-04	1.5908E-03	A+++	6.3217E-07	9.8642E-04	3.7566E-03
A++++	5-6003E-17	7.3662E-09	1.7002E-07	A++++	1.7786E-14	5.6285E-08	1.0516E-06
ΔV	4.1293E-29	9.0743E-16	1.82386-13	AV	3.5170E-25	2.5847E-14	3.8631E-12
AVI	5.3973E-45	3.8226E-25	1.1546E-21	IVA	-2.5107E-39	5.5206E-23	. 1.1220E-19
AVII	2.0229E-66	1.22946-37	1.3797E-32	1 I VA	2.0785E-58	1.5111E-34	9.7080E-30
IIIVA	1.6822E-92	4.1190E-53	3.2800E-46	IIIVA	1.2412E-81	6.2074E-49	2.3629E-42
	•						
••							
P1 =	5.00E+03 N/SQ-M	I, US1= 1.10E+6	14 M/SEC	h! =	5.00E+03 N/SQ-N	. US1= 1.20E+0	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P - '	1.7639E+03	1.5935E+04	2.3179E+04	. Р	2.0953E+03	1.8655E+04	2.7021E+94
Т	8.5803E+01	1.3714E+02	1.5372E+02	T	9.7805E+01	1.4990E+02	1.6896E+02
RHO	1.1099E+01	5.4480E+01	6.5926E+01	RHO	1.0902E+01	5.4191E+01	6.4716E+01
H '	3.8538E+02	6.9283E+02		H	4.5830E+02	8.2329E+02	9.9241E+02
Ä			8.3640E+02	Ä	1.1941E+01	1.5934E+01	1.7687E+01
Š	1.1036E+01 1.7095E+00	1.4594E+01 1.8258E+00	1.6121E+01	S .	1.7860E+00	1.9148E+00	1.9968E+00
Z			1.9017E+00				
	1.8523E+00	2.1328E+00	2.2873E+00	2	1.9651E+00	2.2965E+00	2.4711E+00
GAME	7.6627E-01	7.2815E-01	7.3920E-01	GAME	7.4184E-01	7.3758E-01	7.4928E-01
U	3.1023E+01	6.3278E+00	6.2967E+00	. U	3.3783E+01	6.8046E+00	6.8240E+00
SPECIE		- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
E-	4.6013E-01	5.3112E-01	5.6280E-01	€-	4.9112E-01	5.6455E-01	5.9533E-01
A	8.5393E-02	5.0617E-02		A .	4.5742E-02	3. 2328E-02	1.9594E-02
			3.5176E-02				
	4.4881E-01	3.0588E-01	2-4331E-01	A+	4.3517E-01	2.4355E-01	1.8144E-01
A++	5.6621E-03	1.1189E-01	1.5665E-01	A++	2.7969E-02	1.57716-01	1.9703E-01
A+++	6.8646E-08	4.8997E-04	2.0595E-03	A+++	3.7734E-06	1.8587E-03	6.6034E-03
A++++	3.0824E-16	1.3580E-08	2.9202E-07	A++++	4.7825E-13	2.1070E-07	3.6282E-06
AV	6.0062E-28	2.4749E-15	4.4965E-13	AV	6.3323E-23	2.3326E-13	3.1578E-11
IVA .	2.5597E-43	1.6896E-24	4.4517E-21	IVA .	4.5513E-36	1.4795E-21	2.6733E-18
IIVA	4.7324E-64	1.02746-36	9.5286E-32	AVII	8.3238E-54	1.68826-32	9.1985E-28
AVIII				A 14 T T *	1 721 45 75		
~****	3.4828E-89	7.2762E-52	4.4987E-45	IIIVA	1.7218E-75	3.6964E-46	1.1386E-39

P1 =	5.00E+03 N/SQ-N	i, US1= 1.25E+	D4 M/SEC	P1 = 5	5.00E+03 N/SQ-	I, US1= 1.35E+0	04 M/SEC
•	HOUTE SHOCK	CTANOLNE EUGER	OFFI FETER CHOCK		MOUTHE SHOCK	STANDING SUGGE	REFLECTED SHOCK
			REFLECTED SHOCK	ρ	2.6576E+03	2.4177E+04	
P -t	2.2744E+03	2.0335E+04	2.9465E+04	ĭ			
	1.0290E+02	1.5676E+02	1.7745E+02		1.11666+02	1.7170E+02	
RHO	1.0945E+01	5.4506E+01	6.4771E+01	RHO	1.1154E+01	5.5242E+01	
н .	4.9724E+02	8.9363E+02	1.0778E+03	H	5.7999E+02	1.0439E+03	1.2614E+03
Α,	1.2326E+01	1.6645E+01	1.8508E+01	A	1.3135E+01	1-8129E+01	2.0191E+01
S	1.8233E+00	1.9581E+00	2.0436E+00	S	1.8976E+30	2.0445E+30	2.1362E+00
Z	2.0193E+00	2.3799E+00	2.5635E+00	Z	2.1339E+00	2.5490E+00	2.7469E+00
GAME	7.3117E-01	7.4267E-01	7.5298E-01	GAME	7.2406E-01	7.5092E-01	
U	3.5204E+01	7.0816E+00	7.1346E+00	· U	3.8091E+01	7.7001E+00	7.7903E+00
SPEC IE	5	- MOLE FRACTIONS		SPECIES		- MULE FRACTIONS	
E-	5.0478E-01	5.7981E-01	6.0991E-01	E-	5.3137E-01	6:0768E-01	6.3596E-01
Ā	3.6699E-02	2.5198E-02	1.4103E-02	Ā		1.4252E-32	6.9022E-03
A+	4.1227E-01	2.1350E-01	1.5311E-01	A÷	3.5443E-01	1.5777E-01	1.0464E-01
A++	4.6235E-02	1.7818E-01	2.1184E-01	A++	8.8327E-02	2.1098E-01	2.2627E-01
A+++	1.4438E-05	3.3173E-03	1.1028E-02	A+++	9.4701E-05	9.3057E-03	2.6132E-02
A++++	5.88398-12	7.2753E-07	1.1638E-05	A++++	2.1694E-10	7.2159E-06	9.29246-05
AV	3.4376E-21	1.87916-12	2.3365E-10	AV	1.14516-18	9.42128-11	8.8479E-09
ĀVI	1.5205E-33	3.4087E-20	5.5928E-17	ÄVI	7.49902-30	1.28016-17	
AVII	3.2643E-50	1.5351E-30	7.3023E-26	IIVA	6.05436-45	7.8050E-27	2.27156-22
AVIII	1.2156E-70	1.6929E-43	4.3547E-37	IIIVA	1.51938-63	1.8536E-38	2.5000E-32
	•		•				
P1 =	5.00E+03 N/\$Q-4	, US1= 1.30E+0	4 M/SEC	P1 = 5	-00E+03 N/SQ-4	. USI= 1.40E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	2.462CE+03	2.2191E+04	3.2200E+04	P	2.8611E+03	2.6281E+04	3.8325E+04
T	1.0744E+02	1.6410E+02	1 - 8635E +02	T	1.1565E+02	1.7960E+02	2.0521E+02
RHO	1.1041E+01	5.4852E+01	6.5093E+01	RHO	1.1276E+01	5.55926+01	6.5812E+01
H	5.3781E+02	9.6721E+02	1.1676E+03	H	6.2378E+02	1.12356+03	1.3606E+03
Ä	1.2723E+01	1.7387E+01	1.93366+01		1.3556E+01	1.8875E+01	2.1057E+01
ŝ	1.8604E+00	2.0019E+00	2.0896E+00	ŝ	1.9346E+0J	2.0869E+00	2.18185+00
ž	2.0753E+00	2.4652E+00	2.6546E+00	ž	2.19395+00	2.6322E+00	2.83785+00
GAME	7.2594E-01	7.4730E-01	7.5580E-01	GAME	7.2421E-01	7.5361E-01	7.6141E-01
U	3.6644E+01	7.3873E+00	7.4568E+00	U	3.9544E+01	8.03095+00	8-1757E+00
SPECIE	s	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	
E-	5.1815E-01	5.9436E-01	6.2329E-01	£-	5.4419E-01	6.2008E-01	6.4761E-01
Ā	3.0514E-02	1.9113E-02	9.9807E-03	Ä	2.1961E-02	1.04236-02	4.7462E-03
Ā+	3.8457E-01	1.8441E-31	1.2763E-01	Ã+	3.2369E-01	1.3344E-01	8.5031E-02
A++	6.6729E-02	1.9641E-01	2.2166E-01	Ä++	1.09965-01	2.21536-01	
A+++	4.0689E-05	5.7059E-03	1.7401E-02	A+++	1.9261E-04	1.449dE-02	3.6903E-02
A++++	4.22375-11	2.3920E-06	3.4147E-05	A++++	8.8044E-10	2.02568-05	2.2748E-04
AV	8.1142E-20	1.4189E-11	1.5182E-09	AV	1.12496-17	5.6252E-10	4.3849E-08
	1.53926-31	7.22728-19		ĀVI	2.18076-28	1.9559E-16	1.7659E-13
AVI			9.7887E-16			3.9755E-25	
AVII	2.3457E-47	1.2430E-28	4.51 93E-24	AVII	7.5595E-43		8.2543E-21
AVIII	8.4838E-67	6.6400E-41	1.19976-34	AVIII	1.02846-60	3.40926-36	3.38098-30

 ρ_1 = 5 kN/ m^2

P1 = 3	NOF+03 W/28-4	1. 021= 1.42F+0	4 M/SEC		P1 = 5	.00E+03 N/SQ-M	. US 1= 1.55E+0	4 M/SEC
	•		•					•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.0719E+03	2.8455E+04	4.1603E+04		ρ	3.51508+03	3. 2911E+04	4.8427E+04
T	1.1958E+02	1.8778E+02	2.1480E+02		Ť			2.3466E+02
RHO	1.13866+01	5.5804E+01	6.6148E+01		RHO	1.2750E+02 1.1555E+01	2.0420E+02 5.5998E+01	6.6306E+01
H ::	6.6916E+02	1.2060E+03	1.4626E+03					
Ä .	1.3992E+01	1.9631E+01	2.1937E+01		H	7.6467E+02	1.3790E+03	1.6775E+03
Š	1.9718E+00	2.1297E+00	2.2266E+00		A	1.4913E+01	2.1140E+01	2.3786E+01
ž	2.2563E+00	2.71558+00			S	2.0467E+00	2.2130E+00	2.3163E+00
GAME	7.2567E-01		2.9280E+00		2	2.3858E+00	2.8781E+00	3.1123E+00
U		7.5574E-01	7.6517E-01		GAME	7.3114E-01	7.6042E-01	7.7469E-01
· ·	4.0995E+01	8,3653E+00	8.5362E+00		υ	4.3883E+01	9.1004E+00	9.2591E+00
SPEC 1ES		- MOLE FRACTIONS			SPECIES		- MOLE FRACTIONS	
_	1							
E-	5.56798-01	6.3175E-01	6.5847E-01		E-	5.8085E-01	6.5255E-01	6.7870E-01
A	1.8649E-02	7.4797E-03	3.2443E-03		A	1.3097E-02	3.7864E-03	1.4582E-03
A+	2.9270E-01	1.1149E-01	6.8437E-02		A+	2.3233E-01	7.6216E-02	4.2487E-02
A++	1.31516-01	2.2764E-01	2.2003E-01		A++	1.7264E-01	2.26298-01	1.9787E-01
A+++	3.60898-04	2.1587E-02	4.9319E-02		A+++	1.0783E-03	4.0885E-02	7.7469E-02
A++++	3-1069E-09	5.2864E-05	5.0518E-04		A++++	2.9643E-08	2.7248E-04	2.0112E-03
AV	8.9357E-L7	3.01216-09	1.8670E-07	• .	AV	3.7781E-15	5.5897E-08	2.4454E-06
AVI	4.7012E-27	2.5643E-15	1.6976E-12		AVI	1.2444E-24	2.35308-13	9.8682E-11
AVII -	6.2312E-41	1.6293E-23	2.1998E-19		AVII	1.9202E-37	1.1235E-20	8.1374E-17
AVIII '	4.05538-58	6.1553E-34	3.0115E-28		AVIII	2.2038E-53	4.6038E-30	9.9449E-25
						2120302 33	, 4.00302 30	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				•				
•							•	
							•	
P1 = 5	5-00E+03 N/SO-M				A 1 - 5		46.5 1. 4.05.40	
P1 = 5	5.00E+03 N/SQ-M	. US1= 1.50E+0	94 M/SEC		P1 = 5	i.00E+03 N/SQ-M	, US1= 1.60E+0	4 M/SEC
P1 = 5					P1 = 5	5.00E+03 N/SQ-M	. US 1= 1.60E+0	4 M/SEC
	MOVING SHOCK				P1 = 5			4 M/SEC
p			REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REPLECTED SHOCK
Р Т	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		P	MOVING SHOCK 3.7470E+03	STANDING SHOCK 3.5253E+04	REFLECTED SHOCK 5.1935E+04
p	MOVING SHOCK 3-2899E+03	STANDING SHOCK 3.0683E+04 1.9587E+02	REFLECTED SHOCK 4.4974E+04 2.2466E+02		p T	MOVING SHOCK 3.7470E+03 1.3163E+02	STANDING SHOCK 3.5253E+04 2.1249E+02	REPLECTED SHOCK 5.1935E+04 2.4486E+02
Р Т . RHO '	MOVING SHOCK 3.2899E+03 1.2351E+02	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01		P T RHO	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01	REFLECTED SHOCK 5-1935E+04 2-4486E+02 6-6168E+01
P T RHO	MOVING SHOCK 3.2899E+03 1.2351E+02 1.1480E+01	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03		P T RHO '	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03	REFLECTED SHOCK 5-1935E+04 2-4486E+02 6-6168E+01 1-7907E+03
Р Т . RHO '	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01	REFLECTED SHOCK 4.9774E+04 2.2466E+02 6.6286E+01 1.55681E+03 2.2853E+01		P T RHO H	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01	REFLECTED SHOCK 5-1935E+04 2-4486E+02 6-6168E+01 1-7907E+03 2-4736E+01
P T RHO H	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00		P T RHO H A S	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00	REFLECTED SHOCK 5-1935E+04 2-4486E+02 6-6168E+01 1-7907E+03 2-4736E+01 2-3606E+01
P T RHD H A S	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 2-3203E+00	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00		P T RHO H A S	MOVING SHOCK 3-7470E+03 1-3163E+02 1-1608E+01 8-1479E+02 1-5399E+01 2-0843E+00 2-4522E+00	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00
P T RHD H A S Z GAME	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 2-3203E+00 7-2806E-01	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00 7.5783E-01	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01		P T RHO H A S Z GAME	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00 7.6364E-01	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E+01
P T RHD H A S	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 2-3203E+00	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00		P T RHO H A S	MOVING SHOCK 3-7470E+03 1-3163E+02 1-1608E+01 8-1479E+02 1-5399E+01 2-0843E+00 2-4522E+00	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6.168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00
P T RHO H A S Z GAME U	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 2-3203E+00 7-2806E-01 4-2442E+01	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00 7.5783E-01 8.7088E+00	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00		P T RHO H A S Z GAME	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00 7.6364E-01	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E+01
P T RHD H A S Z GAME	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 2-3203E+00 7-2806E-01 4-2442E+01	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00 7.5783E-01	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00		P T RHO H A S Z GAME	MOVING SHOCK 3.7470E+03 1.3163E+01 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01 4.5319E+01	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00 7.6364E-01	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E-01 9.6410E+00
P T RHO H A S C GAME U SPECIES	MOVING SHOCK 3.2899E+03 1.2351E+02 1.1480E+01 7.1613E+02 1.4445E+01 2.0092E+00 2.3203E+00 7.2806E+01 4.2442E+01	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00 7.5783E-01 8.7088E+00	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.55681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01 4.5319E+01	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00 7.6364E-01 9.3852E+00	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E+01 9.6410E+00
P T RHT H A S GAME U SPECIES	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 2-3203E+00 7-2806E-01 4-2442E+01	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00 7.5783E-01 8.708EE+00	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01 4.5319E+01	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00 7.6364E-01 9.3852E+00 - MOLE FRACTIONS 6.6196E-01	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E-01 9.6410E+00
P T RHO H A S C GAME U SPECIES	MOVING SHOCK 3.2899E+03 1.2351E+02 1.1480E+01 7.1613E+02 1.4445E+01 2.0092E+00 2.3203E+00 7.2806E+01 4.2442E+01	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00 7.5783E-01 8.7088E+00 - MOLE FRACTIONS 6.4231E-01 5.3720E-03	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3-7470E+03 1-3163E+02 1-1608E+01 8-1479E+02 1-5399E+01 2-0843E+00 2-4522E+00 7-3468E-01 4-5319E+01	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 7.6364E-01 9.3852E+00 - MOLE FRACTIONS 6.6196E-01 2.6817E-03	REFLECTED SHOCK 5-1935E+04 2-4486E+02 6-6168E+01 1-7907E+03 2-4736E+01 2-3606E+00 3-2055E+00 7-7958E-01 9-6410E+00
PTRHTOHASSZGAMEUUSPECIES	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 2-3203E+00 7-2806E-01 4-2442E+01	STANDING SHOCK 3.0683E+04 1.9587E+02 5.603IE+01 1.2913E+03 2.037IE+01 2.1708E+00 2.7957E+00 7.5783E-01 8.7088E+00 - MOLE FRACTIONS 6.423IE-01 5.3720E-03 9.2850E-02	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00 6.6888E-01 2.1838E-03 5.4236E-02		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01 4.5319E+01 5.9221E-01 1.0743E-02 2.0365E-01	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00 7.6364E+01 9.3852E+00 MOLE FRACTIONS 6.6196E-01 2.6817E-03 6.2400E-02	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E-01 9.6410E+00
P T RHO H A S Z GAME U SPECIES E A A+- S Z	MOVING SHOCK 3.2899E+03 1.2351E+02 1.1480E+01 7.1613E+02 1.4445E+01 2.0092E+00 2.3203E+00 7.2806E+01 4.2442E+01 5.6903E-01 1.5721E-02 2.6212E-01 1.5250E-01	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00 7.5783E-01 8.7088E+00 - MOLE FRACTIONS 6.4231E-01 5.3720E-03 9.2850E-02 2.2997E-01	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00 6.6888E-01 2.1838E-03 5.4236E-02 2.1051E-01		PTTRHDHAASZGAMEUUSPECIESEAA+A+A+A+A	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01 4.5319E+01 5.9221E-01 1.0743E-02 2.0365E-01 1.9162E-01	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 7.6364E-01 9.3852E+00 - MOLE FRACTIONS 6.6196E-01 2.6817E-03 6.2400E-02 2.1986E-01	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E-01 9.6410E+00 6.8804E-01 9.6374E-04 3.2850E-02 1.8290E-01
P T RHO H A S Z GAME U SPECIES E A A+- A+-	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 7-2806E-01 4-2442E+01 5-6903E-01 1-5721E-02 2-6212E-01 1-5250E-01 6-3707E-04	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 7.5783E-01 8.7088E+00 - MOLE FRACTIONS 6.4231E-01 5.3720E-03 9.2850E-02 2.2907E-01 3.0274E-02	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00 6.688E-01 2.1838E-03 5.4236E-02 2.1051E-01 6.3142E-02		P T RHD H A S Z GAME U SPECIES E-A A++A+++	MOVING SHOCK 3-7470E+03 1-3163E+02 1-1608E+01 8-1479E+02 1-5399E+01 2-0843E+00 2-4522E+00 7-3468E-01 4-5319E+01 5-9221E-01 1-0743E-02 2-0365E-01 1-9162E-01 1-7708E-03	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00 7.6364E-01 9.3852E+00 - MOLE FRACTIONS 6.6196E-01 2.6817E-03 6.2400E-02 2.1986E-01 5.2549E-01	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E-01 9.6410E+00
P T RHD H A S Z GAME U SPECIES E-A A +++++	MOVING SHOCK 3.2899E+03 1.2351E+02 1.1480E+01 7.1613E+02 1.4445E+01 2.0092E+00 2.3203E+00 7.2806E-01 4.2442E+01 5.6903E-01 1.5721E-02 2.26212E-01 6.3707E-04 9.9252E-09	STANDING SHOCK 3.0683E+04 1.9587E+02 5.603IE+01 1.2913E+03 2.037IE+01 2.1708E+00 2.7957E+00 7.5783E-01 8.7088E+00 - MOLE FRACTIONS 6.4231E-01 5.3720E-03 9.28850E-02 2.2907E-01 3.0274E-02 1.2367E-02	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00 6.6888E-01 2.1838E-03 5.4236E-02 2.1051E-01 6.3142E-02 1.0458E-03		P T RHD H A S Z GAME U SPECIES E- A A++ A+++ A++++	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01 4.5319E+01 5.9221E-01 1.0743E-02 2.0365E-01 1.7708E-03 8.4638E-08	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00 7.6364E-01 9.3852E+00 MOLE FRACTIONS 6.6196E-01 2.6817E-03 6.2400E-02 2.1986E-01 5.2549E-02 5.4822E-04	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E-01 9.6410E+00 6.8804E-01 9.6374E-04 3.2850E-02 1.8290E-01 9.1604E-02 3.6336E-03
P T RHO H A S Z GAME U SPECIES E A A+- A+- A+- A+- A+- A+- A+- A+- A+-	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 2-3203E+00 7-2806E+01 4-2442E+01 5-6903E-01 1-5721E-02 2-6212E-01 1-5250E-01 6-3707E-04 9-9252E-09 6-1076E-16	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00 7.5783E-01 8.7088E+00 - MOLE FRACTIONS 6.4231E-01 5.3720E-03 9.2850E-02 2.2907E-01 3.0274E-02 1.2367E-04 1.33569E-08	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00 6.6888E-01 2.1838E-03 5.4236E-02 2.1051E-01 6.3142E-02 1.0458E-03 7.1526E-07		P T RHD H A S Z GAME U SPECIES E-A A+A+++A++++A++++A++++A++++A++++A+++	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01 4.5319E+01 5.9221E-01 1.0743E-02 2.0365E-01 1.9162E-01 1.7708E-03 8.4638E-08 2.1918E-18	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 7.6364E-01 9.3852E+00 - MOLE FRACTIONS 6.6196E-01 2.6817E-03 6.2400E-02 2.1986E-01 5.2549E-02 5.482ZE-04 1.9957E-07	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E-01 9.6410E+00 6.8804E-01 9.6374E-04 3.2850E-02 1.8290E-01 9.1604E-02 3.6336E-03 7.5991E-06
P T RHO H A S Z GAME U SPECIES E-A A++++++++++++++++++++++++++++++++++	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 2-3203E+00 7-2806E-01 4-2442E+01 5-6903E-01 1-5721E-02 2-6212E-01 1-5250E-01 6-3707E-04 9-9252E-09 6-1076E-16 8-1996E-26	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00 7.5783E-01 8.7088E+00 - MOLE FRACTIONS 6.4231E-01 5.3720E-03 9.2850E-02 2.2907E-01 3.0274E-02 1.2367E-04 1.3569E-08 2.6164E-14	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00 6.6888E-01 2.1838E-03 5.4236E-02 2.1051E-01 6.3142E-02 1.0458E-03 7.1526E-07 1.4049E-11		P T RHO H A S Z GAME U SPECIES E- A A+++ A++++ AV AV I	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01 4.5319E+01 5.9221E-01 1.0743E-02 2.0365E-01 1.9162E-01 1.7708E-03 8.4638E-08 2.1918E-14 1.7308E-23	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 2.9582E+00 7.6364E-01 9.3852E+00 MOLE FRACTIONS 6.6196E-01 2.6817E-03 6.2400E-02 2.1986E-01 5.2549E-02 5.4822E-04 1.9957E-07 1.7202E-12	REFLECTED SHOCK 5.1935E-04 2.4486E-02 6.6168E+01 1.7907E-03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E-01 9.6410E+00 6.8804E-01 9.6374E-04 3.2850E-02 1.8290E-01 9.1604E-02 3.6336E-03 7.5991E-06 6.0425E-10
P T RHO H A S Z GAME U SPECIES E A A+- A+- A+- A+- A+- A+- A+- A+- A+-	MOVING SHOCK 3-2899E+03 1-2351E+02 1-1480E+01 7-1613E+02 1-4445E+01 2-0092E+00 2-3203E+00 7-2806E+01 4-2442E+01 5-6903E-01 1-5721E-02 2-6212E-01 1-5250E-01 6-3707E-04 9-9252E-09 6-1076E-16	STANDING SHOCK 3.0683E+04 1.9587E+02 5.6031E+01 1.2913E+03 2.0371E+01 2.1708E+00 2.7957E+00 7.5783E-01 8.7088E+00 - MOLE FRACTIONS 6.4231E-01 5.3720E-03 9.2850E-02 2.2907E-01 3.0274E-02 1.2367E-04 1.33569E-08	REFLECTED SHOCK 4.4974E+04 2.2466E+02 6.6286E+01 1.5681E+03 2.2853E+01 2.2718E+00 3.0200E+00 7.6971E-01 8.8892E+00 6.6888E-01 2.1838E-03 5.4236E-02 2.1051E-01 6.3142E-02 1.0458E-03 7.1526E-07		P T RHD H A S Z GAME U SPECIES E-A A+A+++A++++A++++A++++A++++A++++A+++	MOVING SHOCK 3.7470E+03 1.3163E+02 1.1608E+01 8.1479E+02 1.5399E+01 2.0843E+00 2.4522E+00 7.3468E-01 4.5319E+01 5.9221E-01 1.0743E-02 2.0365E-01 1.9162E-01 1.7708E-03 8.4638E-08 2.1918E-18	STANDING SHOCK 3.5253E+04 2.1249E+02 5.6083E+01 1.4700E+03 2.1909E+01 2.2535E+00 7.6364E-01 9.3852E+00 - MOLE FRACTIONS 6.6196E-01 2.6817E-03 6.2400E-02 2.1986E-01 5.2549E-02 5.482ZE-04 1.9957E-07	REFLECTED SHOCK 5.1935E+04 2.4486E+02 6.6168E+01 1.7907E+03 2.4736E+01 2.3606E+00 3.2055E+00 7.7958E-01 9.6410E+00 6.8804E-01 9.6374E-04 3.2850E-02 1.8290E-01 9.1604E-02 3.6336E-03 7.5991E-06

p, = 5 kN/ m2

Pl = 5	5.00E+03 N/SQ-M	, US1= 1.65E+0	N/SEC	P1 = 5.	.00E+03 N/SQ-M	• US 1= 1.75E+0	4 M/SEC
•						CT	255
			REFLECTED SHOCK				REFLECTED SHOCK
Т	3.9857E+03	3.7537E+04	5.5476E+04	P	4.4836E+03	4.2141E+04	6.2624E+04
RHD	1.3593E+02	2.2089E+02	2.5524E+02	T RHO	1.4517E+02	2.3795E+02	2.7620E+02
	1.1639E+01	5. 5896E+01	4 6.5866E+01		1.1649E+01	5,5261E+01	6.4960E+01
H A	8.6648E+02	1.5632E+03	1.9076E+03		9.7458E+02	1.7576E+03	2.1516E+03
	1.5902E+01	2. 2702E+01	2.5693E+01	A '	1.6933E+01	2.4324E+01	2.7569E+01
S Z	2.12186+00	2.2947E+00	2.4048E+00	s ·	2.1961E+00	2.3758E+00	2.4926E+00
_	2.51928+00	3.0402E+00	3.2998E+00	, <u>Z</u>	2.6514E+00	3.2048E+00 ·	3.4904E+00
, GAME U	7.3842E-01	7.6747E-01	7.8379E-01	GAME	7.4495E-01	7:7587E-01	7.8842E-01-4
Ÿ	4.6747E+01	9.7468E+00	1.0035E+01	U,	4.9582E+01	1.0462E+01	1.0816E+01
SPECIES		- MOLE FRACTIONS		SPECIES	·	- MOLE FRACTIONS	
E-	6.0305E-01	6.7107E-01	6.9695E-01	E-	6.2283E-01	6.8797F-01	7.1350E-01
A	. 8.6487F-03	1.87316-03	6.3079E-04	Á	5.2850E-03	. 8.9711E-04	2.6839E-04
A+	1.7639E-01	5.0432E-02	2.5078E-02	A+	1.2783E-01	3.2065E-02	1:4264E-02
A++	2.0906E-01	2.1028E-01	1.6639E-01	A++	2.3715E-01	1.8450E-01	
A+++	2.8434E-03	6.5303E-02	1.0473E-01	A+++	6.8987E-03	9.1382E-02	1.2449E-01
A++++	2.3445E-07	1.0428E-03	6.2002E-03	Δ++++	1.6646E-06	3.1814E-03	1.5202E-02
AV	1.2197E-13	6.5397E-07	2.1639E-05	AV	3.4139E-12	5.39485-06	1.3393E-04
AV I	2.2741E-22	1.11186-11	3. 2626E-09	IVA	3.4537F-20	3.1760E-10	6.4110E-08
IJVA	3.5049E-34	3.0342E-18	1.3610E-14	IIVA	4.9327E-31	4.0274E-16	1.0952E-12
AVIII	5.9332E-49	9.7687E-27	1. 1281E-21	AVIII	1.1344E-44	7.9609E-24	4.77548-19
P1 = 5	5.00E+03 N/SQ-M	• US 1= 1.70E+04	M/SEC	P1 = 5	.00E+03 N/SQ-H	• US1= 1-80E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFIECTED SHOCK		MUNING SHUCK	STAND ING SHOCK	REFLECTED SHOCK
P	4.2309E+03	3. 9754E+04	5.8983E+04	P	4.7423E+03	4. 4390E+ 04	-6.6141E+04
Ť	1.4049E+02	2.2940E+02	2.6564E+02	Τ.	1.5023E+02	2.4662E+02 '	2.8626E+02
RHO	1.1642E+01	5. 54 83E+01	6.5417E+01	RHO	1.16176+01	5.4742E+01	6.4480E+01
н	9.1973E+02	1.6586E+03	2.0277E+03	н	1.03108+03	1.85858+03	2.2786E+03
Ä	1.6422E+01	2.3514F+01	2.6634E+01	A	1.7462E+01	2.5144E+01	2.8446E+01
Š	2.1597E+00	2.3362E+00	2.4486E+00	ŝ	2.2338E+00	2.4161E+00	2.5347E+00
ž	2.5867E+00	3.1234E+00	3.3943E+00	ž	2.71746+00	3. 2881E+00	3.5833E+00
GAME	7.4203E-01	7.7167E-01	7.8678E-01	GAME	7.4692E-01	7. 7967E-01	7.8886E-01
Ü	4.8163E+01	1.01516+01	1.0424E+01	Ü	5.0987E+01	1.0824E+01	1.1209E+01
SPECIES	· <u>·</u>	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	·
E-	6.1341E-01	6.7983E-01	7. 0538E-01	É-	6.3201E-01	6.9587E-01	7.2093E-01
Ā	6.8013E-03	1.2930E-03	4. 1205E-04	Ā	3.9805E-03	6.1354E-04	1.7888E-04
Ā÷	1.5067E-01	4.0266E-02	1.8995E-02	Ä÷	1.0655E-01	2:5186E-02	1 08116-02
A++	2.2462E-01	1.9813E-01	1.4931E-01	A++	2.46948-01	1.6950E-01	1. 1633E-01
A+++	4.49938-03	7.8591F-02	1. 1588E-01	A+++	1.0521E-02	1.0365E-01	1.2982E-01
A++++	6.4062E-07	1.8795E-03	9.9611F-03	A+++	4.3554E-06	5.1709E-03	2. 1643E-02
AV	6.6992E-13	1.97278-06	5.5997E-05	ÄV	1.7774E-11	1.3870E-05	2.8411E-04
AVI	2.9539F-21	6.3772E-11	1.5306E-08	ĀVI	4.1988E-19	1.4464E-09	2. 2351E-07
AVII	1.4180E-32	3.8576E-17	1.3210E-13	AVII	1.8148E-29	3.7027E-15	6.9849E-12
AVILI	9.0954E-47	3.1802E-25	2.5790E-20	AVIII	1.52756-42	1.6761E-22	6. 1916E-18
•				~	J 74		

PI = 1.00c+04 N/SQ-M, US1= 2.00E+03 M/SEC	PI = 1.00E+04 4/3W-M; USI- 2.40E+05 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 4.7899E+01 8.4638E+01 2.6365E+02	P 6.9073E+01 1.2796E+02 3.7785E+02
T 1.2892E+01 1.6278E+01 2.9006E+01	T 1.8181E+01 2.3403E+01 3.7481E+01
RHO 3.7155E+00 5.1997E+00 9.0813E+00	RHD 3.7991E+00 5.4670E+00 .9.9705E+00
H 1.2892E+01 1.6278E+01 2.9252E+01	H 1.8181E+01 2.3425E+01 4.0645E+01
A 3.5905E+00 4.0345E+00 5.2627E+00	A 4.2633E+00 4.8208E+00 5.5682E+00
	S 1.1440E+00 1.1448E+00 1.1604E+00
	Z 1.0000E+00 1.0001E+00 1.0111E+00
Z 1.0000E+00 1.0000E+00 1.0009E+00	
GAME 1.000JE+00 9.9996E-01 9.5398E-01	GAME 9.9972E-01 9.9294E-01 8.1815E-01
U 4.5391E+00 3.2320E+00 3.1368E+00	U 5.4901E+00 3.7961E+00 3.3925E+00 '
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E- 1.4738E-09 2.0648E-07 8.9546E+04	E- 1.87216-06 7.9511E-05 1.0970E-02
A 1.0000E+00 1.0000E+00 9.9821E-01	A 1.0000E+00 9.9984E-01 9.7806E-01
A+ ***	A+ 1.8721E-06 7.9511E-05 1.0970E-02
A++ 3.6113E+34 1.9531E-27 2.6385E-14	A++ 7.4009E-24 4.4335E-18 1.5244E-10
A+++ 1.31.47E-74 2.9472E-59 5.4224E-33	A+++ 3.8044E-53 - 2.0257E-41 7.7249E-25
A++++ 2. 4.8802E-62	A++++). 2.7761E-77 4.1883E-47
	AV
AV	
AVI 0. 0.	
AVII 0. 0. 0.	AVII 0. 0.
AVIII 0. 0. 0.	AVIII 0. 0. 0.
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	•
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N - 1 005+1/4 H/CO H - 1/51- 2 205-02 H/CCC	01 - 1 00F404 N/SI)-M. USI- 2 40F402 M/SEC
P1 = 1.00E+04 N/SQ-4, US1= 2.20E+03 M/SEC	P1 = 1.00E+04 N/SQ-M. US1= 2.60E+03 M/SEC.
P1 = 1.00E+04 N/SQ-4, US1= 2.20E+03 M/SEC	P1 = 1.00E+04 N/SU-H, US1= 2.60E+03 M/SEC
,	,
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P .5.8033E+01 1.0489E+02 3.2038E+02	MOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.374JE+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+01 1.5319E+02 4.3740E+02 T 2.1178E+01 2.7363E+01 4.0510E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P .5.8033E+01 1.0489E+02 3.2038E+02	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3749E+02 T 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+00 5.5954E+00 1.0577E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 5.8003E+01 1.9489E+02 3.203E+02 T 1.5416F+01 1.9658E+01 3.3706E+01 RHO 3.7624E+00 5.3354E+00 9.4560E+00	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+01 1.5319E+02 4.3740E+02 T 2.1178E+01 2.7363E+01 4.0510E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3749E+02 T 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+00 5.5954E+00 1.0577E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.10836+31 1.53196+02 4.37496+02 7 2.11786+01 2.73636+01 4.05106+01 RHJ 3.82856+00 5.59546+00 1.05776+01 4.156536+01 4.59646+00 5.68456+00 5.6
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3749E+02 7.7363E+01 4.0510E+01 7.7363E+01 4.0510E+01 7.0577E+01 7.0577E+01 7.0577E+01 7.0563E+01 7.0577E+01 7.0563E+01 7.0563E+01 7.0563E+01 7.0563E+00 7
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.374JE+02 T 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+30 5.5954E+00 1.0577E+01 H 2.1184E+01 2.7521E+01 4.6563E+01 A 4.5964E+30 5.1407E+00 5.6845E+00 S 1.1546E+00 1.1555E+00 1.1714E+00 Z 1.0000E+00 1.0006E+00 1.0209E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.10836+31 1.53196+02 4.37496+02 7 2.11786+01 2.73636+01 4.05106+01 RHJ 3.82856+30 5.59546+30 1.05776+01 4.65636+01 4.65
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.374JE+02 T 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+30 5.5954E+00 1.0577E+01 H 2.1184E+01 2.7521E+01 4.6563E+01 A 4.5964E+30 5.1407E+00 5.6845E+00 S 1.1546E+00 1.1555E+00 1.1714E+00 Z 1.0000E+00 1.0006E+00 1.0209E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3743E+02 1.5319E+02 4.0510E+01 1.0517E+01 1.0577E+01 1.0577E+01 1.0577E+01 1.0577E+01 1.0577E+01 1.0577E+01 1.0577E+01 1.0577E+01 1.0577E+01 1.05645E+00 1.1555E+00 1.1714E+00 1.05645E+00 1.1555E+00 1.1714E+00 1.0006E+00 1.0006E+00 1.0006E+00 1.0006E+00 1.0006E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.10836+31 1.53196+02 4.37496+02 7 2.11786+01 2.73636+01 4.05106+01 RHJ 3.82856+30 5.59546+30 1.05776+01 4.65636+01 4.65
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3743E+02 T 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+00 5.5954E+00 1.0577E+01 H 2.1184E+01 2.7521E+01 4.6563E+01 A 4.5964F+00 5.1407E+00 5.6845E+00 S 1.1546E+00 1.1555E+00 1.1714E+00 2 1.0000E+00 1.0006E+00 1.0209E+00 GAME 9.9754E-01 9.6525E-01 7.8136E-01 U 5.9621E+0J 4.0666E+00 3.4040E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083e+31 1.5319e+02 4.3743e+02 7 2.1178e+01 2.7363e+01 4.0510e+01 RMD 3.8285e+00 5.5954e+00 1.0577e+01 4.6563e+01 4.05663e+01 4.05663e+01 4.05663e+01 4.05663e+01 4.05663e+01 4.05663e+01 4.05663e+01 4.05663e+01 4.05663e+00 5.6845e+00 5.1407e+00 5.6845e+00 5.1407e+00 5.6845e+00 5.1714e+00 2.1174e+00 5.6845e+01 4.0566e+00 3.4040e+00 3.4040e+00 3.4040e+00 3.4040e+00 3.4040e+00 3.4040e+00 3.4040e+00 3.4040e+00 3.4040e+00 3.4040e+01 4.0666e+01 4.0666e+
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3749E+02 T 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+00 5.5954E+00 1.0577E+01 H 2.1184E+01 2.7521E+01 4.6563E+01 A 4.5964E+03 5.1407E+00 5.6845E+00 S 1.1546E+00 1.1555E+00 1.1714E+00 Z 1.0000E+00 1.0006E+00 1.0209E+00 GAME 9.9754E-01 9.6525E-01 7.8136E-01 U 5.9621E+0J 4.0666E+00 3.4040E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3749E+02 7 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+30 5.5954E+30 1.0577E+01 4.6563E+01 4.774E+00 4.0209E+00 4.774E+00 4.0209E+00 4.0209E+00 4.0209E+00 4.0666E+00 3.4040E+00 4.0666E+00 3.4040E+00 4.0666E+00 3.4040E+00 4.0666E+00 4.0643E+01 4.0666E+01 4.0643E+01 4.0643
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1048E+01 1.5319E+02 4.3749E+02 T 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+00 5.5954E+00 1.0577E+01 H 2.1184E+01 2.7521E+01 4.6563E+01 A 4.5964F+00 5.1407E+00 5.6845E+00 S 1.1546E+00 1.1555E+00 1.1714E+00 2 1.0000E+00 1.0006E+00 1.0209E+00 GAME 9.9754E+01 9.625E+01 7.8136E+01 U 5.9621E+0J 4.0666E+00 3.4040E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3743E+02 7 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+00 5.5954E+00 1.0577E+01 H 2.1184E+01 2.7521E+01 4.6563E+01 A 4.5964F+30 5.1407E+00 5.6845E+00 S 1.1546E+00 1.1555E+00 1.1714E+00 Z 1.0000E+00 1.006E+00 1.0209E+00 GAME 9.9754E-01 9.6525E-01 7.8136E-01 U 5.9621E+0J 4.0666E+0O 3.4040E+0O SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3743E+02 1.7345E+01 4.0510E+01 1.7345E+01 4.0510E+01 1.0577E+01 1.05645E+00 1.1742E+00 1.0577E+01 1.05645E+00 1.1742E+00 1.0576E+01 1.05645E+01 1.0576E+01 1.0576E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3749E+02 T 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+00 5.5954E+00 1.0577E+01 H 2.1184E+01 2.7521E+01 4.6563E+01 A 4.5964E+00 5.1407E+00 5.6845E+00 S 1.1546E+00 1.1555E+00 1.1714E+00 Z 1.0000E+00 1.0006E+00 1.0209E+00 GAME 9.9754E+01 9.6525E+01 7.8136E+01 U 5.9621E+0J 4.0666E+00 3.4040E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 5.8033E+01 1.9489E+02 3.2038E+02 T 1.5416E+01 1.9658E+01 3.3766E+01 RHO 3.7624E+00 5.3354E+00 9.4560E+00 H 1.5416E+01 1.9660E+01 3.4894E+01 A 3.9263E+00 4.4221E+00 5.4554E+00 5.4554E+00 5.4554E+00 T 1.1327E+00 1.1334E+00 1.1491E+00 T 1.0000E+00 1.0000E+00 1.0042E+00 T 1.0000E+00 3.5247E+00 3.3177E+00 T 1.0000E+00 3.5247E+00 3.3177E+00 T 1.0000E+00 3.5247E+00 3.3177E+00 T 1.0000E+00 9.9999E-01 9.9154E-01 M 4.2285E-03 M 4.2285E-03	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3743E+02 7 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+30 5.5954E+30 1.0577E+01 4.6563E+01 4.0000E+00 1.1755E+00 1.1714E+00 4.000E+00 1.0209E+00 4.000E+00 1.0209E+00 4.0666E+00 3.4040E+00 4.0666E+00 3.4040E+00 4.0666E+00 3.4040E+00 4.0666E+00 4.0640E+00 4.0666E+00 4.0640E+00 4.0640E+00 4.0666E+00 4.0640E+00 4.0640E+00 4.0666E+00 4.0640E+00 4.0640
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3743E+02 1.7345E+01 4.0510E+01 RHJ 3.8285E+30 5.5954E+00 1.0577E+01 H 2.1184E+01 2.7521E+01 4.6563E+01 4.6563E+01 4.6563E+01 4.6563E+01 4.6563E+01 4.6563E+01 4.6563E+01 4.6563E+01 4.6563E+01 4.0666E+00 1.1714E+00 4.0209E+00 4.0209E+00 4.0209E+00 4.0209E+00 4.0666E+00 3.4040E+00 4.0666E+00 3.4040E+00 4.0666E+00 3.4040E+00 4.0666E+00 4.06
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 5.8033E+01 1.9489E+02 3.2038E+02 T 1.5416E+01 1.9658E+01 3.3766E+01 RHO 3.7624E+00 5.3354E+00 9.4560E+00 H 1.5416E+01 1.9660E+01 3.4894E+01 A 3.9263E+00 4.4221E+00 5.4554E+00 5.4554E+00 5.4554E+00 T 1.1327E+00 1.1334E+00 1.1491E+00 T 1.0000E+00 1.0000E+00 1.0042E+00 T 1.0000E+00 3.5247E+00 3.3177E+00 T 1.0000E+00 3.5247E+00 3.3177E+00 T 1.0000E+00 3.5247E+00 3.3177E+00 T 1.0000E+00 9.9999E-01 9.9154E-01 M 4.2285E-03 M 4.2285E-03	HOVING SHUCK STANDING SHOCK REFLECTED SHOCK P 8.1083E+31 1.5319E+02 4.3743E+02 7 2.1178E+01 2.7363E+01 4.0510E+01 RHJ 3.8285E+30 5.5954E+30 1.0577E+01 4.6563E+01 4.0000E+00 1.1755E+00 1.1714E+00 4.000E+00 1.0209E+00 4.000E+00 1.0209E+00 4.0666E+00 3.4040E+00 4.0666E+00 3.4040E+00 4.0666E+00 3.4040E+00 4.0666E+00 4.0640E+00 4.0666E+00 4.0640E+00 4.0640E+00 4.0666E+00 4.0640E+00 4.0640E+00 4.0666E+00 4.0640E+00 4.0640

P1 = 1	.00E+04 N/SQ-M	. 021= 5-80E+0	3 M/SEC	h1 = 1	WC + W + W + SQ S	1. 031= 3.20E+C	13 H/SEC
			•				
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MÚVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	9.4161E+01	1.8766E+02	5.01335+02	Ρ	1.24115+02	2.92265+02	6.5755E+02
T	2.4379E+01	3.1641E+01	4.30785+01	T	3.0992E+01	3.9224E+01	4.7540E+01
RHO	3.8618E+00	5.9141E+00	1.1267E+01	CHA	3.9935E+00	7.31115+00	1.30125+01
d	2.4438E+01	3.2427E+01	5.2787E+01	н	3.1759E+01	4.4765E+01	6.6703E+01
Ā	4.9052E+00	5.3436E+00	5.8127E+00	Δ.	5.2843E+00	5.5952E+00	6.0973F+C0
S	1.1645E+00	1.16576+00	1.1825E+00	S	1.18295+00	1.1855E+00	1.2055E+00
ž	1.0002E+00	1.00285+00	1.0329E+00	ž	1.0028E+00	1.0192E+00	1.0630E+00
GAME	9.8680E-01	8.99886-01	7.5932E-01	GAME	8.9850E-01	7.8313E-01	7.3569E-01
ט	6.4404F+00	4.1848E+00	3.38235+00	U	7.4473E+00	4.0546E+00	3.3151E+00
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SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	1.6427E-04	2.83236-03	3.1871E-02	£-	2.7737E-03	1.87926-02	5.9243F-02
4	9.9967E-01	9.9434E-01	9.3626E-01	A	9.9445E-01	9.6242E-01	8.81516-01
A+.	1.6427E-04	2.8323E-03	3.1871E-02	Δ.+-	2.77375-03	1.8792E-02	5.9243E-02
A++ '	4.2405E-17	1.0062E-12	6.8219E-09	A++	7.0816E-13	7.9212E-10	6.9813E-08
A+++	2.6856E-39	1.0658E-29	3.2084E-21	A+++	3.8062E-30	2.2635E-23	5.5964E-19
A++++	5.7075E-74	3.8643E-56	2.0607E-40	A++++	4.0674E-57	1.7493E-44	2.8580E-36
AV).	3.1929E-91	5.4415E-66	AV	J.	1.4621E-72	2.2300E-59
AVI	j	0.	0.	IVA).	0.	1.0110E-88
IIVA	j.	2.	0.	IIVA	· J.	j. '	0.
AVIII	0.	0.	0.	IIIVA	o.	0.	0.
	• •						
P1 = 1	.00E+04 N/SQ-4	. US1= 3.00E+0	3 M/SEC	P1 = 1	.00E+04 4/SQ-M	. USI= 3.40F+0	3 M/SEC
			A F F F A F F A C D A V		Maythe suger	CTAMOLIC SUSSE	DEEL ECTED CHOCH
_		STANDING SHOCK		P		STANDING SHOCK	
P	1.0839E+02	2.32996+02	5.7190E+02		1.4164E+02	3.6632E+02	7.6622E+02
T	2.773CE+01	3.5683E+01	4.5366E+01	T RH3 ·	3.39615+01	4.2336E+01	4.96955+01
RHO	3.90568+00	6.4723E+00	1-20412+01		4.1422E+00	8.3738E+00	1.4261E+01
변	2.7952E+01	3.8169E+01	5.94205+01	ė,	3.5886F+C1	5.2076E+01	. 7.48285+01
A	5.1463E+00	5.4634E+00	5.9496E+00	A	5.3641 E+ 33	5.7543E+00	6.2572E+00
S	1.1739E+00	1.1756E+00	1.19385+00	s	1.1917E+00	1.1959E+00	1.2176E+00
Z	1.0008E+00	1.0088E+00	1.0469E+00	ž SAMS	1.0069E+00	1.0333F+00	1.0812E+00
GAME	9.5428E-01	8.2919E-01	7.4530E-01	GAME	8.4146E-01	7.5691E-01	7.2869E-01
.ນ	6.9291E+00	4.1666E+00	3.34765+00	U	8.00705+00	1.9426E+00	3.2916E+00
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	8.141 DE-04	8.7410E-03	4.4821E-02	E-	6.84775-03	3.2220E-02	7.5103E-02
Ā	9.9837E-01	9.8252E-01	9,1036E-01	Ā	1.8630E-01	9.3556E-01	8.4979E-01
Ã÷	8.1410E-04	8.7410E-03	4.4821E-02	Ä+	6.8477E-03	3.2220E-02	7.5103E-02
A++	1.0306E-14	5.14386-11	2.4056E-08	4++	1.6169£-11	5.7653E-09	1.7912E-07
A+++	3.4700E-34	5.5823E-26	5.1937E-20	A+++	3.30546-27	1.84116-21	4.6579E-18
A++++	1.12206-64	2.6237E-49	3.4653E-38	4+++	7.841 JE -52	6. 3918E÷41	1.4342E-34
AV	3.	2.81275-8C	1.8035E-62	AV	4.2140E-84	6.7416E-67	1.08196-56
AVI	ŏ.	2.012.1-00	0.	ĀVI	3.	0.	6.2465E-85
AVII	0.	. 0.	ŏ.	AVII	j.	ő.	0.
AVIII	0.	0.	0.	AVIII).	j.	0.

PI =	T*00F+04 W\20-W	, USI = 3. BUE+U	3 M/SEL	P1 = 1	1.00E+04 N/SQ-M	, USI= 4.00E+0	3 M/SEC
		3		•			<u>.</u>
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	1.6101E+02	4.5586E+02	9.01685+02	P	2.04775+02	6.9128E+02	1.2543E+03
Ť	3.65498+01	4.5091E+01	5.1845E+01	· ·	4.0775E+01	5.0023E+01	5.6084E+01
RHO	4.34715+00	9.6279E+00	1.5791E+01	RHO	4.8633F+00	1.2682E+01	1.9513E+01
H		6.0003E+01		H			
	4.0330F+01		8.3809E+01		5.0090E+01	7.7749E+01	1.0403E+02
A	5.4415E+00	5.9267E+00	6.4269E+00	A	5.63495+00	6.2906E+00	6.7821E+00
S	1.20065+30	1.20675+00	1.2302E+00	S	1.21895+30	1.2299E+00	1.2572E+00
2	L.0134E+00	1.0501E+00	1.1014E+00	Z	1.0323E+00	1.0897E+00	1.1462E+00
GAME	7.9945E-01	7.4187E-01	7.23355-01	GAME	7.54365-01	7.2598E-01	7.1555E-01
U	8.6035E+00	3.8732E+00	3.2788E+00	U	9.8576E+00	3.7679E+00	3.2788E+00
SPEC IE	s	- MOLE FRACTIONS		SPECIE:	·	- MOLE FRACTIONS	
E -	1.3203E-02	4.7673E-02	9.2063E-02	E÷	3.1260E-02	8.2277E-02	1.2754E-01
4	9.73598-01	9.0465E-01	8.1587E-01	A	9.3748E-01	8.3545E-01	7.4492E-01
A+	1.3203E-02	4.7673E-02	9.2062E-02	4+	3.1260E-02	8.2276E-02	1.2754E-01
A++	1.6161E-10	2.5709E-08	4.1682E-07	A++	3.5431E-09	2.3283E-07	1.7630E-06
A+++	5.1840E-25	5.2129E-20	3.1909E-17	A+++	4.4669E-22	7.7130E-18	8.82126-16
A++++	1.2329E-47	3.0167E-38	5.27528-33	A++++	2.9159E-42	3.36578-34	2.5845E-30
AV	1.19256-77	1.3479E-62	3.8000E-54	AV	2.5602E-69	4.14428-56	7.72138-50
AVI			4.8251E-81	AVI		5.6220E-84	9.7881E-75
	j.				0.		
AVII	J.	o. n.	0.	AVII	0.	0.	· 0•
AVIII	0.	u •	0.] I I VA	0.	0.	0.
		•					
01 -	1.00E+04 N/SQ-M	. US1= 3.80E+0	3 4/556	01 -	1.00E+04 N/SQ-M	. US1= 4.20E+0	7 4455
P1 -	1.00C+04 W/3M-W	, 031- 3.605+0	3 H/3EC	, 71 -	T.005+04 N/30-	1, U31- 4.20E+C	13 M/3EC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	1.8208E+02	5.6489E+02	1.0645E+03	P	2.2876E+02	8.3718E+02	1.4706E+03
Τ.	3.8795E+01	4.7647E+01	5.3978E+01	ř	4.2555E+01	5.2280E+01	5.8161E+01
RHO	4.5925E+00	1.1089E+01	1.75598+01	RHO .	5.1492E+00	1.4407E+01	2.1610E+01
н	4.5071E+01	6.8613E+01	9.3571E+01	H	5.5376E+01	8.7435E+01	1.1512E+02
A	5.5326F+00	6.1080E+00	6.6028E+00	Ä	5.7439E+00	6.4740E+00	6.9634E+00
Š	1.2096E+00	1.2180E+00	1.2434E+00	· s	1.2286E+00	1.2425E+00	1.2716E+00
Z		1.0691E+00	1.1232E+00	ž		1.1115E+00	
	1.0220E+00				1.0440E+30		1.1701E+00
GAME	7.7205E-01	7.3239E-01	7.1910E-01	GAME	7.4260F-01	7.2126E-01	7.1249E-01
U	9.2240E+00	. 3.8019E+00	3.2751E+00	U	1.0497E+01	3.7433E+00	3.2885E+00
505515		- MOLE FRACTIONS		SPECIE:	•	- MOLE EDACTIONS	
SPECIE	5	- MULE PRACTIONS		375616	,	- MOLE FRACTIONS	
E -	2.1491E-02	6.4623E-02	1.0968E-01	E+	4.21336-02	1.00326-01	1.4538E-01
A	9.5702E-01	ð.7075É÷01	7.8065E-01	· A	9.15736-01	7.9937E-01	7.0924E-01
-A+	2.1491E-02	6.46235-02	1.0967E-01	A+	4.2133E-02	1.0032E-01	1.4538E-01
A++	9.1308E-10	8.5989E-08	8.8998E-07	A++	1.0659E-08	5.4533E-07	3.2788E-06
A+++	2.2748E-23	7.9781E-19	1.8188E-16	A+++	5.0857E-21	5.4470E-17	3.7391E-15
A++++	1.2526E-44	4.8797E-36	1.35958-31	A++++	2.6022E-40	1.3090E-32	3.8626E-29
AV	6.30965-73	4.7043E-59	6.9814E-52	AV	3.7082E-66	1.5000E-53	5.9621E-48
IVA		2.7304E-88	1.0233E-77	AVI		3.3402E-80	
). 0) .		5.8427E-72
AVII	0.	0. 0.	0.	1 I VA	0.	9.	0.
AVIII							
	J • '	٥.	0.	IIIVA	0.	0,	0.

P1 = 1.00E+04 N/SQ-M, -US1= 4.40E+03 M/SEC	P1 = 1.00E+04 N/SQ-H, US1= 4.80E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P10-12 2.5419E+02 1.0049E+03 1.7134E+03 1.7134E+03 1.7134E+03 1.7134E+03 1.7134E+01 6.0214E+01 6.0214E+01 1.6266E+01 2.3817E+01 1.2680E+02 1.0569E+00 6.6579E+00 7.1458E+00 5.004.000 1.00000000000000000000000000000	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.0894E+02 1.3977E+03 2.2792E+03 1 4.712IE+01 5.8585E+01 6.4286E+01 RHO 6.0388E+00 2.0178E+01 2.8463E+01 H 7.2772E+01 1.1959E+02 1.5188E+02 A 6.0879E+00 7.0214E+00 7.5155E+00 S 1.2595E+00 1.2836E+00 1.3180E+00 2 1.0857E+00 1.12456E+00 1.2456E+00 GAME 7.2446E-01 7.1174E-01 7.0535E-01 U 1.2418E+01 3.7071E+00 3.3463E+00
SPECIES MOLE FRACTIONS	SPECIES
E+	E- 7.8932E-02 1.5419E-01 1.9720E-01 A 8.4214E-01 6.9161E-01 6.0561E-01 A+ 7.8932E-02 1.5419E-01 1.9717E-01 A++ 1.1873E-07 4.0202E-06 1.5995E-05 A+++ 1.0970E-18 5.6617F-15 1.5558E-13 A+++ 5.4655E-36 7.8885E-29 4.1780E-26 AV 3.0786E-59 1.7879E-47 4.5138E-43 AVI 3.6593E-90 2.8601E-71 8.8445E-65 AVII 0. 0. 0.
P1 = 1.00E+04 N/SQ-N; US1 = 4.60E+03 M/SEC MOVING SHOCK: STANDING SHOCK REFLECTED SHOCK P	P1 = 1.00E+04 N/SQ-M, US1= 5.00E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.3821E+02 1.6258E+03 2.6002E+03 T 4.88472E+01 6.0590E+01 6.6306E+01 RHO 6.3351E+00 2.22229E+01 3.0844E+01 H 7.9076E+01 1.3129E+02 1.6509E+02 A 6.2052E+00 7.2031E+00 7.7020E+00 S 1.2706E+00 1.2985E+00 1.3343E+00 Z 1.1014E+00 1.2071E+00 1.2714E+00 GAME 7.2124E-01, 7.0938E-01 7.0366E-01 U 1.3055E+01 3.7131E+00 3.3560E+00
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E- 6.6150E-02 1.3648E-01 1.8030E-01 A 8.6770E-01 7.2704E-01 6.3940E-01 A+ 6.6150E-02 1.3648E-01 1.8028E-01 A+ 5.9274E-08 2.2199E-06 9.7878E-06 A++ 2.3180E-19 1.4098E-15 4.8727E-14 A++ 3.1073E-37 5.7595E-30 4.7526E-27 AV: 3.4560E-61 2.5495E-49 1.3763E-44 AV: 2.0214E-91 4.7116E-74 5.2704E-67 AVII 0. 0. 0. 0.	E- 9.2058E-02 1.7160E-01 2.1348E-01 A 8.1589E-01 6.5681E-01 5.7307E-01 A+ 9.2057E-02 1.7158E-01 2.1343E-01 A+ 2.2049E-07 6.9259E-06 2.5305E-05 A+++ 4.379E-18 6.9259E-04 4.6225E-13 A+++ 7.5810E-35 8.6527E-28 3.2068E-25 AV 2.5311E-57 8.3719E-46 1.1898E-41 AVI 6.3346E-86 8.0664E-69 1.074TE-62 AVII 0. 0. 5.2554E-91 AVIII 0. 0. 0.

P1 = 1	1.00E+04 N/SQ-M	. US1= 5.20E+0	3 M/SEC		P1 = 1	.00E+04 N/SQ-M	, US1= 5.60E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	3.6873E+02	1.8774E+03	2.95175+03	•	P	4.3377E+02	2.4452E+03	. 3.7450E+03
ī	4.9766F+01	6.2574E+01	6.8375E+01		ŕ	5.2226E+01	6.6529E+01	7.2665E+01
RHO	6.6282E+00	2.4347E+01	3.3259E+01		RHO	7.2039E+00	2.8625E+01	3.8108E+01
					H.	9.9517E+01		
н	8.5633E+01	1.4350E+32	1.7905E+02				1.6940E+02	2.0879E+02
A	6.3234F+00	7.3853E+00	7.8951E+00		. 🛕	6.5627E+00	7.75556+00	8.3020E+00
S	1.2819E+00	1.3137E+00	1.3512E+00		S	1.3056E+30	1.3458E+00	1.3865E+00
Z	1.1179E+00	1.2323E+00	1.29808+00		Z	1.1529E+00	1.2840E+00	1.35246+00
GAME	7.1876E-01	7.0732E-01	7.0236E-01		GAME	7.1527E-01	7.0412E-01	7.0134E-01
U	1.3689E+01	3.7120E+00	3.3919E+00		. U	1.49595+01	3.7599E+00	3.4772E+00
SPECIE	ś ⁻	- MOLE FRACTIONS			SPEC IE S		- HOLE FRACTIONS	,
E	1.0543E-01	1.8853E-01	2.2956E-01		E-	1.32656-01	2.2118E-01	2.6058E-01
Ā ·	7.8914E-01	6.2295E-01	5.4092E-01		Ā	7.3471E-01	5.5768E-01	4.7893E-01
Ā+ . ·	1.0543E-01				Ä÷	1.3264E-01	2.2112E-01	2.6040E-01
A++	3.8541E-07	1.1450E-05	3.9446E-05	•	A++	1.0277E-06	2.8659E-05	9.2204E-05
A+++	1.5642E-17	6.6595E-14	1.3306E-12		A+++	1.44946-16	5. d786E-13	1.01398-11
A++++	7.8200E-34		2.31956-24		A++++	4.8754E-32	4.7449E-25	1.0263E-22
				•	AV .			
AV	1.0533E-55	2.9965E-44	2.8629E-40			7.8194E-53	2.1210E-41	1.2430E-37
AVI	1.5194E-83	1.5454E-66	1.1630E-60		AVI	2.4537E-79	2.41425-62	8.5843E-57
IIVA	0.	· 0.	4.7533E-88		AVII	0.	1.6597E-90	
IIIVA	0.	0.	0.		IIIVA	0.	0.	0.
	-							:
					•	•	<i>‡</i>	••
					_			
P1 =	1.00E+04 N/SQ-4	. US1= 5.40E+0	3 M/SEC		P1 = 1	.00E+04 N/SU-4	. US1= 5.80E+0	3 M/SEC
			:•			•	. •	
	MOVING - SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ.	4.0049E+02	2.1475E+03	3.3310E+03		ρ	4.6793E+02	2.7539E+03	. 4.1808E+03
T	5.1013E+01	6.4537E+01	7.0480E+01	•	T	5.3404E+01	6.8496E+01	7.4904E+01
RHO	6.9168E+30	2.6453E+01	3.5673E+01		RHO .	7.4800E+00	3.0689E+31	4.0440E+01
H	9.2441E+01	1.5614E+02	1.9356E+02		H	1.0683E+02	1.8292E+02	2 • 24 4 3 E + 02
· 🚡	6.4424E+00	7.5682E+03	8.0938E+00		A .	6.6834E+00	7.9433E+00	8.5183E+00
Š	1.2936E+00	1.3295E+00	1.3686E+00		· \$	1.3179E+00	1.3623E+00	1.4047E+00
					2	1.17146+00	1.3101E+00	1.38026+00
2	1.1350E+00	1.2579E+00	1.32498+00		GAME			
GAME	7.1682E-01	7.0556E-01	7.0155E-01			7.1403E-01	7.0312E-01	7.0186E-01
U	1.4320E+01	3.7375E+00	3.4321E+00		, U	1.5583E+01	3-8164E+00	3.5284E+00
SPECIE	s	- MOLE FRACTIONS			SPECIES		- MOLE FRACTIONS	
ε÷	1.1897E-01	2.0501E-01	2.4521E-01		E	1.4634E-01	2.3670E-01	2.7547E-01
A	7.6205E-01	5.8999E-01	5.0963E-01	• .	Ā	7.0733E-01	5. 2665E-01	4.4919E-01
A+1,	1.1897E-01	2.0498E-01	2.4509E-01		Ã+	1.4633E-01	2.3661E-01	2.7519E-01
A++	6.4154E-07	1.83036-05	6.05216-05		A++ ·	1.58928-06	4.36726-05	1.39076-04
					A+++			
A+++	4.9432E-17	2.0238E-13	3.6985E-12	-		3.9027E-16	1.6033E-12	2.7169E-11
4+++	6.4390E-33	6.4429E-26	1.5654E-23		4++++	2.9925E-31	3.0922E-24	6.4199E-22
AV	2.7064E-54	8.5849E-43	6-1176E-39		AV	1.29536-51	4.2759E-40	2.3275E-36
AVI	8.6770E-82	2.1689E-64	1.0398E-58		IVA	1.0384E-77	1.9635E-60	6.2283E-55
AVII	0.	0.	3.1046E-85		AVII	0.	9.1650E-88	8.3867E-80
IIIVA	0.	` O.	0.		AVIII	0.	0.	0.
			•	•	•			

P1 = 1	1.00E+04 N/SQ-N	. US1= 6.00E+0	3 M/SEC	P1 = 1	1-00E+04 N/SQ-M	US1= 6.40E+0	3 M/SEC
P	MOVING SHOCK 5.0331E+02	STANDING SHOCK	REFLECTED SHOCK	P		STANDING SHOCK	REFLECTED SHOCK
T	5.4557E+01	7.0517E+01	7.7238E+01	7	5.6810E+01	7.4690E+01	8.2340E+01
RHO	7.7491E+00	3.2805E+01	4.2706E+01	RHO		· · · 3.6818E+01	4.6903E+01
H	1.1439E+02	1.9702E+02	2.4067E+02	H.	1.3027E+02	2.2653E+02	2.7503E+02
Ä	6.8053E+00	8.1376E+00	8.7464E+00	A.	7.0530E+00	8.5463E+00	9.2548E+00
₹.	1.3305E+00	1.3792E+00	1.4231E+00	Š	1.3566E+30		1.4610E+00
ž	1.1905E+00	1.3366E+00	1.4084E+00	ž	1.2305E+00	1.3905E+00	·1.4666E+00
GAME	7.1303E-01	7.0257E-01.	7.0325E-01	GAME	7.1163E-01	7.0326E-01	7.09285-01
U	1.6205E+01	3.8367E+00	3.5864E+00	U	1.7442E+01	3.9313E+00	3.7280E+00
·			3.200	•			
SPECIES	s	- MOLE FRACTIONS		SPEC LE	5	- MOLE FRACTIONS	
E-	1.6004E-01	2.5184E-01	2.8996E-01	E-	1.8730E-01	2.8086E-01	3.1815E-01
Ā	6.7993E-01	4.9638E-01	4.2029E-01	Ã	6.2540E-01	4.3843E-01	3.6417E-01
Ã÷	1.6003E-01	2.5171E-01	2.8954E-01	Ã+	1.87296-01		3.1720E-01
A++	2.391 JE-06	6.5802E-05	2.0906E-04	A++	5.0572E-06	1.44825-04	4.7864E-04
A+++	9.9709E-16	4.2731E-12	7.2390F-11	4+++	5.5754E-15	2.8315E-11	5.3269E-10
4++++	1.7417E-30	1.9297E-23	3.9578F-21	A++++	4.2299E-29		1.5898E-19
AV	2.35546-50	8.0640E-39	4.2350E-35	AV	3.8124E-48	2. 25 15E-36	1.5188E-32
AVI .	1.0378E-75	1.4652E-58	4.2937E-53.	ĀVI	1.7529E-72	5.5805E-55	. 2.3018E-49
AVII	0.	4.6605E-85	3.5630E-77	AVII).	6.5717E-80	7.9714E-72
IIIVA	0.	0.	0.	LIIVA	.i.	2.	0.
MATTI	•	. ••	••	~****	-3.	· ·	•
P1 = 1	1.00E+04 N/SQ-M	, US1= 6.20E+0	3 M/SEC	P1 = 1	L+00E+04 N/SU-M	US1= 6.60E+0	3 M/SEC
6.5	MOUTHE SHOEK	STANGIAL SUGSE	ner ceten sunce	,	MOVIES CHOCK	STANISTNI SHOCK	BEEL ECTED ENDER
	5.39916+02	3.4476E+J3	REFLECTED SHOCK 5.1399E+03	P	MOVING SHOCK 6.1671E+02	STANDING SHOCK	REFLECTED SHOCK 6.2186E+03
P *	5.5690E+01	7.2572E+31	7.97065+01	Ť	5.7918F+01	7.6887E+01	8.5178E+01
RHO	8.0108E+J0	3.4843E+01	4.4870E+01	RHO	8.5098E+30	3.8706E+01	4.8777E+01
H ,	1.22202+02	2.1154E+02	2.5753E+02	H .	1.38596+02	2.41986+02	2.93215+02
	6.9284E+30	8.3377E+00	8.9909E+00	A .	7.1791E+00	8.7655E+00	9 • 541 8E + 00
ŝ	1.3434E+00	1.3964E+00	1.4419E+00	ŝ	1.3700E+00	1.4316E+CO	1.4803F+00
ž	1.2102E+00	1.36346+00	1.43725 +00	ž	1.2513E+00	1.4180E+00	1.4967E+00
GAME	7.1224E-01	7.0258E-01	7.0567E-01	GAME	7.11186-01	7.0472E-01	7.1415E-01
U	1.68258+01	3.8808E+00	3.65255 +00	U	1.805%E+01	3.9890E+00	3.8146E+00
SPECIES		3.00002.00	3.03232.000		2000000		
	s	- MOLE FRACTIONS		SPEC IES		MOLE FRACTIONS	
F-		- MOLE FRACTIONS				MOLE FRACTIONS	
E-	1.7370E-01	- MOLE FRACTIONS 2.6655E-01-	3.0419E+01	€-	2.00815-01	MOLE FRACTIONS	3.3188E-01
A.	1.7370E-01 6.5260E-01	- MOLE FRACTIONS 2.6655E-01- 4.6700E-01	3.0419E-01 3.9194E-01	£- A	2.00815-01 5.9840E-01	MOLE FRACTIONS 2.9479E-01 4.1063E-01	3.3188E-01
A +	1.7370E-01 6.5260E-01 1.7369E-01	- MOLE FRACTIONS 2.6655E-01. 4.6700E-01 2.6635E-01	3.0419E-01 3.9194E-01 3.3356E-01	E - A A+	2.00815-01 5.98405-01 2.00795-01	MOLE FRACTIONS 2.9479E-01 4.1063E-01 2.9437E-01	3.3188E-01 3.3698E-01 3.3041E-01
A+ A+	1.7370E-01 6.5260E-01 1.7369E-01 3.5119E-06	- MOLE FRACTIONS 2.6655E-01- 4.6700E-01 2.6635E-01 9.7953E-05	3.0419E-01 3.9194E-01 3.3356E-01 3.1532E-04	Ë – A A+ A++	2.0081E-01 5.9840E-01 2.0079E-01 7.1569E-06	MOLE FRACTIONS . 2.9479E-01 4.1063E-01 2.9437E-01 2.1343E-04	3.3188E-01 3.3698E-01 7.3386E-04
A; A+ A++	1.7370E-01 6.5260E-01 1.7369E-01 3.5119E-06 2.4023E-15	- MOLE FRACTIONS 2.6655E-01 4.6700E-01 2.6635E-01 9.7953E-05 1.1081E-11	3.0419E-01 3.9194E-01 3.0356E-01 3.1532E-04 1.9475E-10	£ - A A+ A++	2.00815-01 5.98405-01 2.00795-01 7.15695-06 1.24155-14	MOLE FRACTIONS 2.9479E-01 4.1063E-01 2.9437E-02 2.1343E-04 7.1913E-11	3.3188E-01 : .3.3698E-01 : .3.3041E-01 7.3386E-04 1.4955E-09
A+ A++ A+++ A+++	1.7370E-01 6.5260E-01 1.7369E-01 3.5119E-06 2.4023E-15 8.7341E-30	- MOLE FRACTIONS 2.6655E-01. 4.6700E-01 2.6635E-01 9.7953E-05 1.1081E-11 1.1403E-22	3.0419E-01 3.0194E-01 3.0356E-01 3.1532E-04 1.9475E-10 2.4777E-20	E - A A+ A++ A+++	2.00815-01 5.98405-01 2.00795-01 7.15695-06 1.24155-14 1.85245-28	MOLE FRACTIONS 2.9479E-01 4.1063E-01 2.9437E-01 2.1343E-04 7.1913E-11 3.6826E-21	3.3188E-01 2.3.3698E-01 3.3041E-01 7.3386E-04 1.4955E-09 1.0669E-18
A+ A++ A+++ A++++	1.7370E-01 6.5260E-01 1.7369E-01 3.5119E-06 2.4023E-15 8.7341E-30 2.8665E-49	- MOLE FRACTIONS 2.6655E-01. 4.6700E-01 2.6635E-01 9.7953E-05 1.1081E-11 1.1403E-22 1.3880E-37	3.0419E-01 3.9194E-01 3.3356E-01 3.1532E-04 1.9475E-10 2.4777E-20 7.9077E-34	E- A A+ A++ A++ A+++ AV	2.00815-01 5.9840E-01 2.0079E-01 7.1569E-06 1.2415E-14 1.8524E-28 3.9058E-47	MOLE FRACTIONS 2.9479E-01 4.1063E-01 2.9437E-01 2.1343E-04 7.1913E-11 3.6826E-21 3.5710E-35	3.3188E-01 3.3698E-01 7.3386E-01 7.3386E-04 1.4955E-09 1.066/E-18 3.1307E-31
A+ A++ A+++ A++++ AV AVI	1.7370E-01 6.5260E-01 1.7369E-01 3.5119E-06 2.4023E-15 8.7341E-30 2.8665E-49 2.9696E-74	- MOLE FRACTIONS 2.6655E-01 4.6700E-01 2.6635E-01 9.7953E-05 1.1081E-11 1.1433E-22 1.3880E-37 9.5116E-57	3.0419E-01 3.9194E-01 3.0356E-01 3.1532E-04 1.9475E-10 2.4777E-20 7.9077E-34 3.1144E-51	E- A A+ A++ A+++ A+++ AV AVI	2.00815-01 5.9840E-01 2.0079E-01 7.1569E-06 1.2415E-14 1.8524E-24 3.9058E-47 4.7123E-71	MOLE FRACTIONS 2.9479E-01 4.1063E-01 2.9437E-02 2.1343E-04 7.1913E-11 3.6826E-21 3.5710E-35 3.185dE-53	3.3188E-01 3.3698E-01 7.3386E-04 1.4955E-09 1.0669E-18 3.1307E-31 1.8889E-47
A+ A++ A+++ A++++	1.7370E-01 6.5260E-01 1.7369E-01 3.5119E-06 2.4023E-15 8.7341E-30 2.8665E-49	- MOLE FRACTIONS 2.6655E-01. 4.6700E-01 2.6635E-01 9.7953E-05 1.1081E-11 1.1403E-22 1.3880E-37	3.0419E-01 3.9194E-01 3.3356E-01 3.1532E-04 1.9475E-10 2.4777E-20 7.9077E-34	E- A A+ A++ A++ A+++ AV	2.00815-01 5.9840E-01 2.0079E-01 7.1569E-06 1.2415E-14 1.8524E-28 3.9058E-47	MOLE FRACTIONS 2.9479E-01 4.1063E-01 2.9437E-01 2.1343E-04 7.1913E-11 3.6826E-21 3.5710E-35	3.3188E-01 3.3698E-01 7.3386E-01 7.3386E-04 1.4955E-09 1.066/E-18 3.1307E-31

P1 =	1.00E+04 N/SQ-M	. US1= 6.80E+0	3 M/SEC	, P1 =	1.00E+04 N/SQ-M	. US1= 7.20E+0	3 H/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	6.56915+02	4.6407E+03	6.80395+03	. Р	7.40885+02	5.5246E+03	8.0690E+03
- 7	5.9020F+01	7.9197E+01	8.8264E+01	ī	6.1220E+01	8.4177E+01	9.5319E+01
RHO -	8.7462E+00	4.0526E+01	5.0463E+01	RHO	9.19116+00	4.3678E+01	5.3204E+01
		2.5794E+02	3.1208E+02	H		2.9110E+02	3.5210E+02
H	1.4716E+02				1.6506E+02		
A	7.3070E+00	8.9983E+00	9.8544E+00	A S	7.5691E+00	9.5086E+00	1.05498+01
S	1.3837E+30	1.4496E+00	1.4998E+00		1.4119E+30	1.4856E+00	1.5392E+00
7	1.2726E+00	1.4459E+00	1.5276E+00	2 .	1.3167E+00	1.5026E+00	1.5911E+00
GAME	7-1088E-01	7.0707E-01	7-2024E-01	GAME	7.1073E-01	7.1482E-01	7.3379E-01
U	1.8671E+01	4.0338E+00	3.9139E+00	U	1.9891E+01	4.1920E+00	4.1585E+00
SPECIE	s	- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
E-	2.14198-01	3.0839E-01	3.4536E-01	£-	2.4054E-01	3.3448E-01	3.7150E-01
A	5.7162E-01	3.8353E-01	3.10416-01	Ä	5.1894E-01	3.3174E-01	2.5984E-01
Ä+	2.1417E-01	3.0776E-01	3.4308E-01	Ä÷	2.405 JE-01	3.3310E-01	3.0581E-01
A++	9.982 JE-06	3.1499E-04	1.1392E-03	A++	1.8738E-05	6.8991E-04	2.8442E-03
4+++	2.683JE-14	1.8357E-10	4.3341E-09	A+++	1.1592E-13	1.2158E-09	4.0064E-08
A++++			7.5468E-18	A++++	1.1610E-26	6.8408E-19	4.4618E-16
	7.7476E-28	2.0898E-20		AV		1.45148-31	4.41 01 E-27
AV.	3.8814E-46	5.6818E-34			2.8601E-44		
AVI	1.44315-69	1.8112E-51	1.7137E-45	AVI	7.22488-67	5.8062E-48	
IIVA	0.	7.2933E-75	2.7295E-66	IIVA	o.	7.5059E-70	1.6889E-60
PIIVA	٥.	0.	2.1798E-91	AVIII	J.	0.	1.3633E-83
			,	•			
	•			•		,	
	·						
P1 =	1.00E+04 N/SQ-N	, USI= 7.00E+0	3 M/SEC	P1 *	1.00E+04 N/SQ-4	US1= 7.40E+0	13 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ,.	. 6.9830E+02	5.0745E+03	7.4271E+03	. Р	1.8464E+02	5.9895E+03	8. 741 3E +03
T	6.0120E+01	8.1620E+01	9.1685E+01	Ť	6.2325E+01	8.6939E+01	9. 9235E+01
RHO.	8.9734E+00	4.2174E+01	5.1941E+01	RHO	9.3986E+00	4.4974E+01	5.4280E+01
H	1.55995+02	2.7430E+02	3.31996+02	H.	1.7440E+02	3.0833E+02	3.72968+02
				Ä			
S	7.4369E+00	9.2456E+00	1.01975+01	S	7.7038E+00 1.4263E+00	9.7942E+00	1.0907E+01
	1.3977E+00	1.4676E+00	1.5197E+00			1.5040E+00	1.55878+00
Σ	1.29445+00	1.4742E+00	1.5596E+00	Z	1.3395E+00	1.5319E+00	1.62285+00
GAME	7.1372E-01	7.1044E-01	7.2722F-01	GAME	7.10896-01	7.20296-31	7.3869E-01
U .	1.9282E+01	4.1073E+00	4.0506E+00	U	2.04985+01	4.2887E+00	4.2813E+00
SPECIE	s	- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
E-	2.2744E-01	3.2165E-01	3.5880E-01	E-	2.5346E-01	3.4720E-01	3.8378E-01
4	5.4513E-01	3.5716E-01	2.8421E-01	Ā	4.9310E-01	3.0664E-01	2-3692E-01
Ä+		3.2072E-01		Ã+ ·	2.53418-01	3.4513E-01	
	2.2742E-01 1.375JE-05			. A++	2.53168-05	1.0350E-03	3.7482E-01
A++		4.6557E-04	1.8035E-03	A+++			4-4840E-03
A+++	5.6501E-14	4.7063E-10	1.3208E-08		2.3435E-13	3.2382E-09	1.2221E-07
A++++	3.0976E-27	1.18986-19	5.8343E-17	4++++	4.3170E-26	4.1424E-18	3.4450E-15
AV	3.6038E-45	9.0342E-33	1.7685E-28	AV	2.4070E-43	2.5198E-30	1.1141E-25
AVI	3.9148E-68	1.0213E-49	1.8852E-43	AVI	1.8270E-65	3.6796E-46	2.1630E-39
AVII	0.	2.3417E-72	2.2112E-63	IIVA	0.	2.7962E-67	1.3059 E-57
IIIVA	0.	0.	1.8017E-87	IIIVA	o.	9.3694E-93	1.0378E-79

P1 = 1	.00E+04 N/SQ-M	. US1= 7.60E+0	3 M/SEC	PL = 1	*-00E+0+ W\20-W	. 021= 8-00E+0	3 M/SEC 👵
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	8.29925+02	6.4752E+03	9. 452 2E+03	Ρ.	9.2337E+02	7.4670E+03	1.0936E+04
10				T .	6.5712E+01	9.64276+01	1.1183E+02
	6.3442E+01	8.9909E+01	1.0340E+02				
RHD	9.5991E+00	4.6126E+01	5.5254E+01	RHD	9.9611E+00	4.7790E+01	5.6981E+01
H	1.8399E+02	3.2612E+02	3.9471E+02	н	2.0392E+02	3.6272E+02	4.3995E+02
A	7.8416E+90	· 1.0099E+01	1.1256E+01	A	8.1267E+00	1.0738E+01	1.1884E+01
S	1.4409E+00	1.5222E+00	1.5782E+00	S	1.4706E+00	1.5584E+00	1.6166F+00
ž.	1.3628E+33	1.5614E+00	1.6545E+00	Z	1.41 J7E+30	1.6203E+00	1.7161E+00
GAME	7.11226-01	7.2647E-01	7.4058E-01	GAME	7.1246E-01	7.380CE-01	7.3593E-01
Ü	2.11125+01	4.3987E+00	4.4152E+00	Ü	2.2318E+01	4.6569E+00	4.7045E+00
.•	2.11126.01	4.37072.00	4.41322400	•	2.23102.01	***************************************	70.012.00
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
F- A	2.66Z2E-01	3.5953E-01	3.9559E-01	€-	2.9112E-01	. 3.8284E-01	4.173CE-01
Δ '	- 4.6760E-31	2.8250E-01	2.1581E-01	· A	4.1783E-01	2.3790E-01	1.8060E-01
4+	2.6615E-31	3.5640E-01	3.8162E-01	A+ '	2.9100E~01	3.7567E-01	3.8691E-01
A++ "	3.3962E-05	1.5643E-03	6.9852E-03	A++	6.0795E-05	3.5872E-03	. 1.5190E-02
4+++	4.6540E-13	8.8053F-09	3.65456-07	4+++	1.7783E-12	6.6324E-08	2.5860E-06
A++++	1.5231E-25	2.5971E-17	2.5715E-14	A++++	1.82145-24	1.0483E-15	9.4914E-13
AV					7.1387F-41	1.5841E-26	8.09956-22
	1.7343E-42		2.6700E-24	AV.			
AVI	2.9133E-64	2.4925E-44	2.16265-37	AVI	L.0037E-61	1.1883E-40	8.6599E-34
AVII .	1.99236-93	1.1297E-64	9.0007E-55	AVII	4.4885E-90	1.9185E-59	1.16345-49
AVILL	·).	2.9964E-89	- 6.7313E-76	lliva	0.	3.2415E-82	4.92768-69
•							
							•
•					•		
					•		
P1 = 1	.00E+04 N/SU-4	. US1= 7.83E+0	3 M/SEC	P1 = 1	1.00E+04 N/SU-4	I, US1= 8.20E+6	03 M/SEC
P1 = 1	.00E+04 N/SQ-4	. USI= 7.83E+0	3 M/SEC	P1 = 1	1.00E+04 N/Su-4	1, US1= 8.20E+0	O3 M/SEC
P1 = 1				P1 = 1			
	MUNING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MUVING SHUCK 8.7587E+02	STANDING SHOCK 6.9613E+03	REFLECTED SHOCK 1.0176E+04	P	MOVING SHOCK 9.7123E+02	STANDING SHOCK 7.9638E+03	REFLECTED SHOCK 1.1691E+04
P T	MUVING SHUCK 8.7587E+02 6.4567E+01	STANDING SHQCK 6.9613E+03 9.3050E+01	REFLECTED SHOCK 1.0176E+04 1.0760F+02	. Р . Т	MOVING SHOCK 9.7123E+02 6.6872E+01	STANDING SHOCK 7.9638E+03 9.9905E+01	REFLECTED SHOCK 1.1691E+04 1.1587E+02
P T RHO	MUVING SHUCK 8.75d7E+02 6.4567E+01 9.7838E+00	STANDING SHOCK 6.9613E+03 9.3050E+01 4.7029E+01	REFLECTED SHOCK 1.0176E+04	9 Т · СНЯ	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+01	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01
P T RHO H	MUVING SHUCK 8.7587E+02 6.4567E+01	STANDING SHQCK 6.9613E+03 9.3050E+01	REFLECTED SHOCK 1.0176E+04 1.0760F+02	. Р . Т	MOVING SHOCK 9.7123E+02 6.6872E+01	STANDING SHOCK 7.9638E+03 9.9905E+01	REFLECTED SHOCK 1.1691E+04 1.1587E+02
P T RHO H	MUVING SHUCK 8.7547F+02 6.4567E+01 9.7838E+00 1.9342E+02	STANDING SHOCK 6.9613E+03 9.3050E+01 4.7029E+01 3.4413E+02	REFLECTED SHOCK 1.0176E+04 1.0760F+02 5.6107E+01 4.1692E+02	9 Т · СНЯ	MOVING SHOCK 9.7123E+02 6.68725+01 1.0120E+01 2.1424E+02	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+01 3.8141E+02	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02
P T RHO H	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9342E+02 7.9822E+J0	STANDING SHQCK 6.9613E+03 9.3050E+01 4.7029E+01 3.4413E+02 1.0414E+01	REFLECTED SHOCK 1.0176E+04 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01	Р Т СНЯ Н А	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748E+00	STANDING SHOCK 7.9638E+03 9.9905E+01 4.6333E+01 3.8141E+02 1.1052E+01	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01
P T RHO H	MUVING SHUCK 8.75d7F+02 6.4567E+01 9.7838E+00 1.9382E+02 7.982ZE+J0 1.4557E+J0	STANDING SHOCK 6-9613E+03 9-3050E+01 4-7029E+01 3-4413E+02 1-0414E+01 1-5403E+00	REFLECTED SHOCK 1.0176404 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00	Р Т Н Н А S	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748F+00 1.4858F+00	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+01 3.8141E+02 1.1352E+01 1.5761E+00	REFLECTED SHOCK 1.1691E+04 1.1597E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00
P T RHO H A S	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9382E+02 7.9822E+02 1.4557E+00 1.3865E+00	STANDING SHOCK 6.9613E+03 9.3050E+01 4.7029E+01 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+00	REFLECTED SHOCK 1.0176E+04 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00	P T RHJ H A S S	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748E+00 1.4858E+00 1.4952E+00	\$TANDING \$HOCK 7.9638E+03 9.9905E+01 4.8333E+01 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+00	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00
P T RHO H A S Z GAME	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9342E+02 7.9842E+02 1.4557E+03 1.3865E+00 7.1174E-01	STANDING SHOCK 6.9613E+03 9.3050E+01 4.7029E+91 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+00 7.3268E-01	REFLECTED SHOCK 1.0176404 1.0760F+02 5.6107E+01 4.1692E+02 1.1574E+01 1.5974E+00 1.6855E+00 7.3929E-01	P T T H A S S Z S BME	MOVING SHOCK 9-7123E-02 6-6872E+01 1-0120E+01 2-1424E+02 8-2748E+00 1-4858E+00 1-4552E+00 7-1343E-01	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+01 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+00 7.4126E-01	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.3210E+01
P T RHO H A S	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9382E+02 7.9822E+02 1.4557E+00 1.3865E+00	STANDING SHOCK 6.9613E+03 9.3050E+01 4.7029E+01 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+00	REFLECTED SHOCK 1.0176E+04 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00	P T RHJ H A S S	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748E+00 1.4858E+00 1.4952E+00	\$TANDING \$HOCK 7.9638E+03 9.9905E+01 4.8333E+01 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+00	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00
P T RMO H A S Z GAME U	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9382E+02 7.9822E+02 1.4557E+00 1.3865E+00 7.1174E-01 2.1711E+01	\$TANDING SHQCK 6.9613E+03 9.3050E+01 4.7029E+01 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+00 7.3268E-01 4.5219E+00	REFLECTED SHOCK 1.0176404 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00	P T H A S S Z Game U	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748E+00 1.4458E+00 1.4352E+00 7.1343E-01 2.2903E+01	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+01 3.8141E+02 1.352E+01 1.5761E+00 1.6493E+00 7.4126E+01 4.8009E+00	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.3210E+01 4.8479E+00
P T RHO H A S Z GAME	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9382E+02 7.9822E+02 1.4557E+00 1.3865E+00 7.1174E-01 2.1711E+01	STANDING SHOCK 6.9613E+03 9.3050E+01 4.7029E+91 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+00 7.3268E-01	REFLECTED SHOCK 1.0176404 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00	P T T H A S S Z S BME	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748E+00 1.4458E+00 1.4352E+00 7.1343E-01 2.2903E+01	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+01 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+00 7.4126E-01	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7660E+00 7.3210E+01 4.8479E+00
P T RMO H A S Z GAME U	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9342E+02 7.9822E+00 1.4557E+00 7.1174E-01 2.1711F+01	STANDING SHOCK 6.9613E+03 9.3050E+01 4.7029E+91 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+00 7.3268E-01 4.5219E+00	REFLECTED SHOCK 1.0176404 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00	P T H A S S Z Game U	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748E+00 1.4858E+00 1.4552E+00 7.1343E-01 2.2903E+01	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+J1 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+J0 7.4126E-01 4.8009E+00	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.3210E-01 4.8479E+00
P T RMO H A S Z GAME U	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9382E+02 7.9822E+02 1.4557E+00 1.174E-01 2.1711F+01	\$TANDING \$MQCK 6.9613E+03 9.3050E+01 4.7029E+01 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+03 7.3268E-01 4.5219E+00	REFLECTED SHOCK 1.0176404 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00	P T CHR A S S C GAME U SPECIES	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748E+00 1.4858E+00 1.4352E+00 7.1343E-01 2.2903E+01	\$TANDING \$HOCK 7.9038E403 9.9905E401 4.8333E401 3.8141E402 1.1052E401 1.5761E400 1.6493E400 7.4126E-01 4.8009E+00	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.321UF-01 4.8479E+00
P T RHO H A S Z GAME U SPECIFS	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9382E+02 7.9822E+J0 1.4557E+J0 1.3865E+00 7.1174E-J1 2.1711F+01	\$TANDING \$MQCK 6.9613E+03 9.3050E+01 4.7029E+01 3.4413E+02 1.0414E+01 1.5403E+00 7.3268E+02 7.3268E-01 4.5219E+00 - MOLE FRACTIONS 3.7138E-01 2.5961E-01	REFLECTED SHOCK 1.0176E+04 1.0760F+02 5.6107E+01 4.1692E+02 1.15774E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00	P T H H A S Z GAME U SPECIES	MOVING SHOCK 9.7123E+02 6.6472E+01 1.0120E+01 2.1424E+02 8.2748E+00 1.4458E+00 1.4352E+00 7.1343E-01 2.2903F+01	STANDING SHOCK 7.9638E403 9.9905E+01 4.8333E+01 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E400 7.4126E+01 4.8009E+00	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.3210F-01 4.8479E+00 4.2725E-01 1.6636E-01
P T RMO M S S GAME U SPECIFS	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9342E+02 7.9422E+00 1.4557E+00 1.3865E+00 7.1174E-01 2.1711E+01 2.7876E-01 4.4252E-01 2.7867E-01	\$TANDING \$HQCK 6.96136+03 9.30506+01 4.70296+91 3.44136+02 1.04146+01 1.54036+00 1.59086+01 7.32686-01 4.52196+00 - MOLE FRACTIONS 3.71386-01 2.59616-01 3.66656-01	REFLECTED SHOCK 1.0176404 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00	P T T H A S C G G M E U S P E C A A	MOVING SHOCK 9-7123E-02 6-6872E+01 1-0120E+01 2-1424E+02 8-2748E+00 1-4858E+00 1-4858E+00 1-4858E+01 2-2903F+01 3-0324E-01 3-0324E-01 3-0304E-01 3-0304E-01	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+01 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+00 7.4126E+01 4.8009E+00	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.3210E-01 4.8479E+00 4.2725E-01 1.6636E-01 3.8553E-01
P T RHO H S Z GAME U SPECIFS E-A+A++	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9382E+02 7.9822E+02 1.4557E+00 1.174E-01 2.1711F+01 2.7876E-01 4.252E-01 2.786E-01 4.5269E-01	\$TANDING \$MQCK 6.9613E+03 9.3050E+01 4.7029E+01 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+03 7.3268E-01 4.5219E+00 - MOLE FRACTIONS 3.7138E-01 2.5961E-01 3.6665E-01 2.3648E-01	REFLECTED SHOCK 1.0176+04 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00	P T T H A S Z GAME U SPECIES E- A A+ A+	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748F+00 1.4858E+00 1.4352E+00 7.1343E-01 2.2903F+01 3.0324E-01 3.0304E-01 3.0306E-01 3.0308E-01 7.9443E-05	STANDING SHOCK 7.903 BER03 9.9905 E+01 4.833 3E+01 3.814 1E+02 1.105 2E+01 1.576 1E+00 1.649 3E+00 7.4126 E+01 4.8009 E+00 - MOLE FRACTIONS 3.9367 E+01 2.1802 E+01 3.8295 E+01 5.3576 E+03	REFLECTED SHOCK 1.1691E + 04 1.1587E + 02 5.7790E + 01 4.6312E + 02 1.2170E + 01 1.6354E + 00 1.7460E + 00 7.3210F - 01 4.8479E + 00 4.2725E - 01 1.6636E - 01 3.8553E - 01 2.0851E - 02
P T RMO H A S Z GAME U SPECIFS E-A A+++	MUVING SHUCK 8.7547E+02 6.4547E+01 9.7838E+00 1.9342E+02 7.9822E+02 1.4557E+01 1.365E+00 7.1174E-01 2.7876E-01 4.4252E-01 2.7867E-01 4.5269E-03 9.1409E-15	STANDING SHOCK 6.9613E+03 9.3050E+01 4.7029E+91 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+00 7.3268E-01 4.5219E+00 - MOLE FRACTIONS 3.7138E-01 2.5961E-01 3.6665E-01 2.3648E-03 2.4011E-08	REFLECTED SHOCK 1.0176e+04 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00 4.0670E-01 1.9710F-01 3.8569E-G1 1.0504E-02 1.0133E-06	P T RHD H A S Z GAME U SPECIES E- A A+ A++ A++	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748F+00 1.4458E+00 1.4352E+00 7.1343E-01 2.2903F+01 3.0324E-01 3.0304E-01 3.0304E-01 7.9443E-05 3.4332E-12	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+J1 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+30 7.4126E-01 4.8009E+00 - MOLE FRACTIONS 3.9367E-01 2.1802E-01 3.8295E-01 5.3576E-03 1.7729E-07	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.3210F-01 4.8479E+00 4.2725E-01 1.6636E-01 3.8553E-01 2.0851E-02 5.8706E-06
P T RHO H A S Z GAME U SPEC IFS E-A+A++++++++++++++++++++++++++++++++++	MUVING SHUCK 8.75d7E+02 6.4567E+01 9.7838E+00 1.9382E+02 7.9822E+03 1.4557E+03 1.3865E+03 7.1174E-01 2.1711F+01 2.7876E-01 4.4252E-01 2.7867E-05 9.1409E-13 5.3428E-25	STANDING SHQCK 6.9613E+03 9.3050E+01 4.7029E+91 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+00 7.3268E-01 4.5219E+00 - MOLE FRACTIONS 3.7138E-01 2.5961E-01 3.6665E-01 2.3648E-03 2.4011E-08 1.6316E-18	REFLECTED SHOCK 1.0176-04 1.0760F-02 5.6107E-01 4.1692E-02 1.1574E-00 1.6855E-00 7.3929E-01 4.5581E+00	P T RHJ H S GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748F+00 1.4858E+00 7.1343E-01 2.2903F+01 3.0324E-01 3.0304E-01 3.0308E-01 7.0443E-05 3.4332E-12 6.1494E-24	STANDING SHOCK 7.9634E+03 9.9905E+01 4.8333E+01 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+00 7.4126E+01 4.8009E+00	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.3210E-01 4.8479E+00 4.2725E-01 1.6636E-01 3.8553E-01 2.0851E-02 5.8704E-06 4.3589F-12
P T RMO H A S Z GAME U SPECIFS E-A A+++	MUVING SHUCK 8.7547E+02 6.4547E+01 9.7838E+00 1.9342E+02 7.9822E+02 1.4557E+01 1.365E+00 7.1174E-01 2.7876E-01 4.4252E-01 2.7867E-01 4.5269E-03 9.1409E-15	STANDING SHOCK 6.9613E+03 9.3050E+01 4.7029E+91 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+00 7.3268E-01 4.5219E+00 - MOLE FRACTIONS 3.7138E-01 2.5961E-01 3.6665E-01 2.3648E-03 2.4011E-08	REFLECTED SHOCK 1.0176e+04 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00 4.0670E-01 1.9710F-01 3.8569E-G1 1.0504E-02 1.0133E-06	P T RHD H A S Z GAME U SPECIES E- A A+ A++ A++	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748F+00 1.4458E+00 1.4352E+00 7.1343E-01 2.2903F+01 3.0324E-01 3.0304E-01 3.0304E-01 7.9443E-05 3.4332E-12	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+J1 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+30 7.4126E-01 4.8009E+00 - MOLE FRACTIONS 3.9367E-01 2.1802E-01 3.8295E-01 5.3576E-03 1.7729E-07	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.3210F-01 4.8479E+00 4.2725E-01 1.6636E-01 3.8553E-01 2.0851E-02 5.8706E-06
P T RHO H A S Z GAME U SPEC IFS E-A+A++++++++++++++++++++++++++++++++++	MUVING SHUCK 8.75d7E+02 6.4567E+01 9.7838E+00 1.9382E+02 7.9822E+03 1.4557E+03 1.3865E+03 7.1174E-01 2.1711F+01 2.7876E-01 4.4252E-01 2.7867E-05 9.1409E-13 5.3428E-25	STANDING SHQCK 6.9613E+03 9.3050E+01 4.7029E+91 3.4413E+02 1.0414E+01 1.5403E+00 1.5908E+00 7.3268E-01 4.5219E+00 - MOLE FRACTIONS 3.7138E-01 2.5961E-01 3.6665E-01 2.3648E-03 2.4011E-08 1.6316E-18	REFLECTED SHOCK 1.0176-04 1.0760F-02 5.6107E-01 4.1692E-02 1.1574E-00 1.6855E-00 7.3929E-01 4.5581E+00	P T RHJ H S S GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748F+00 1.4858E+00 7.1343E-01 2.2903F+01 3.0324E-01 3.0304E-01 3.0308E-01 7.0443E-05 3.4332E-12 6.1494E-24	STANDING SHOCK 7.9634E+03 9.9905E+01 4.8333E+01 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+00 7.4126E+01 4.8009E+00	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.3210F+01 4.8479E+00 4.2725E+01 1.6636E+01 2.0451E+02 5.8704E+06 4.3589E+02
P T RHO H S Z GAME U SPEC IFS E-A+A++A+++A+++AV	MUVING SHUCK 8.75d7E+02 6.4567E+01 9.7838E+00 1.93d2E+02 7.98d2E+03 1.4557E+03 1.3865E+00 7.1174E-01 2.7876E-01 4.4252E-01 4.7876E-05 9.1409E-13 5.3428E-25 1.3154E-41 6.2071E-63	STANDING SHOCK 6.9613E+03 9.3050E+01 4.7029E+91 3.4413E+02 1.0414E+01 1.5403E+00 1.59C8E+00 7.3268E-01 4.5219E+00 - MOLE FRACTIONS 3.7138E-01 2.5961E-01 2.3648E-03 2.4011E-08 1.6316E-16 8.3952E-28 1.6818E-42	REFLECTED SHOCK 1.0176404 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00 4.0670E-01 1.9710F-01 3.8569E-01 1.0504E-02 1.0133E-06 1.6787E-13 5.1900E-23 1.5972E-35	P T RHC T RH	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748F+00 1.4858E+00 1.4958E+01 2.2903F+01 3.0324E-01 3.0308E-01 7.9443E-05 3.4332E-12 6.1494E-24 6.3917E-40 1.7762E-60	STANDING SHOCK 7.9638E+03 9.9905E+01 4.8333E+01 3.8141E+02 1.1052E+01 1.5761E+00 1.6493E+00 4.8009E+00 - MOLE FRACTIONS 3.9367E-01 2.1802E-01 2.8295E-01 5.3576E-03 1.7729E-07 6.3371E-15 2.7065E-25 7.2291E-39	REFLECTED SHOCK 1.1691E+04 1.1587E+02 5.7790E+01 4.6312E+02 1.2170E+01 1.6354E+00 1.7460E+00 7.3210E-01 4.8479E+00 4.2725E-01 1.6636E-01 3.8553E-01 2.0851E-02 5.8706E-06 4.3589E-12 9.1431E-21 2.9447E-32
P T RMO H A S Z GAME U SPEC IFS E - A + A + + + + A + + + + A V I	MUVING SHUCK 8.7547E+02 6.4567E+01 9.7838E+00 1.9342E+02 7.9422E+03 1.4557E+03 1.3865E+03 7.1174E-01 2.1711F+01 2.7876E-01 4.252E-01 2.7867E-01 4.5269E-05 9.1409E-13 5.3428E-25 1.3154E-41	\$TANDING \$MQCK 6.9613E+03 9.3050E+01 4.7029E+01 3.4413E+02 1.0414E+01 1.5403E+00 7.3268E-01 7.3268E-01 4.5219E+00 MOLE FRACTIONS 3.7138E-01 2.5961E-01 3.6665E-01 2.3648E-03 2.4011E-08 1.6316E-16 8.3952E-28	REFLECTED SHOCK 1.0176+04 1.0760F+02 5.6107E+01 4.1692E+02 1.1579E+01 1.5974E+00 1.6855E+00 7.3929E-01 4.5581E+00 4.0670E-01 1.9710F-01 3.8569E-01 1.0504E-02 1.0133E-06 1.678E-13 5.1900E-23	P T RHJ H A S Z GAME U SPECIES E- A A+ A++ A++	MOVING SHOCK 9.7123E+02 6.6872E+01 1.0120E+01 2.1424E+02 8.2748F+00 1.4858E+00 1.4952E+00 7.1343E-01 2.2903F+01 3.0324E-01 3.9360E-01 3.9360E-01 3.9360E-01 3.4332E-12 6.1494E-24 6.3917E-40	STANDING SHOCK 7.9638Ex03 9.9905E*01 4.8333Ex01 3.8141Ex02 1.1052E*01 1.5761Ex00 1.6493Ex00 7.4126Ex01 4.8009Ex00 - MOLE FRACTIONS 3.9367Ex01 2.1802Ex01 2.8295Ex01 5.3576Ex03 1.7729Ex07 6.3371Ex15 2.7065Ex25	REFLECTED SHOCK 1.1691E + 04 1.1587E + 02 5.7790E + 01 4.6312E + 02 1.2170E + 01 1.6354E + 00 1.7460E + 00 7.3210F - 01 4.8479E + 00 4.2725E - 01 1.6636E - 01 3.8553E - 01 2.0451E - 02 5.8704E - 06 4.3589E - 12 9.1431E - 21

p1 = 10 kN/ m2

P1 = 1.	.00E+04 N/SQ-4	US1 = 8.40E+03 M/S	EC, -	P1 = 1.00E+04 N/SQ-M. US1= 8.80E+03 M/SEC
		•		
	MUVING SHOCK	STANDING SHOCK REFL	ECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
Р.	1.0206E+03		1.24758+04	P 1.1228E+03 9.5414E+03 1.4078E+04
. ,	6.8063E+31		1.1973E+02	7.0551E+01 1.1079E+02 1.2720E+02
RHO			5.8695E+01	
H	1.0269E+01		4.8695E+02	
Ä	2.24835+02			The state of the s
	8.4277E+00		1.2446E+01 1.6536E+00	A 8.7497E+00 1.1895E+01 1.3011E+01
S .	1.50115+00			\$ 1.5321E+00 1.6284E+00 1.6911E+00
2	1.4602E+00		1.7751E+00	I 1.5113E+00 1.7334E+00 1.8357E+00
GAME	7.1465E-01		7.2882E-01	GAME 7.1802E-01 7.3680E-01 7.2504E-01
U.	2.34 96E+ 31	4.9481E+00	4.9857E+00	U, 2.4676E+01 5.2376E+00 5.2386E+00
SPECIES		MOLE FRACTIONS		SPECIES MOLE FRACTIONS
E-	3.1516E-01	4.0402E-01	4.3664E-01	E- 3.3832E-01 4.2311E-01 4.5523E-01
	3.6979E-01	1.9985E-01	1.5407E-01	A 3.2354E-C1 1.6936E-O1 1.3232E-O1
A+	3.1495E-01	3.8825E-01	3.8195E-01	A+. 3.3795E-01 3.9197E-01 3.6971E-01
A++	1.0487E-04	7-8826E-03	2.7328E-02	A++ 1.8265E-04 _ , 1.5565E-02 _ , 4.2702E-02
A+++	6.6103E-12	4.6058E-07	1.2022E-05	A+++ 2.4596E-11 2.5524E-06 4.0972E-05
A++++	2.0532E-23	3.6479E-14	1.6709E-11	A++++ 2.3064E-22 8.5434E-13 1.7092E-10
AV	4.2919E-39	4.2937E-24	7.8143E-20	AV 1.9876E-37 6.3048E-22 3.2677E-18
AVI	2.738CE-59	3.9699E-37	6.7403E-31	AVI 7.2339E-57 5.5121E-34 1.5951E-28
. IIVA	1.38555-86	1.9099E-54	1.4885E-45	AVII 4.0421E-83 5.4506E-50 - 3.5720E-42
IIIVA	0.	1.6597E-75	1.6392E-63	AVIII 0. 1.5857E-69 5.8791E-59
2.2	, •••			100000000000000000000000000000000000000
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			•	·
				•
P1 = 1	.00E+04 N/SQ-4	USI= 8.60E+03 M/S	EC	P1 = 1.00E+04 N/SQTM. US1= 9.00E+03 M/SEC
	MOVING SHOCK,	STANDING SHOCK REFL	ECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
Р	1.0712E+03	9.0050E+33	1.3272E+04	P 1.1762E+03 1.0102E+04 1.4912E+04
τ .	6.92876+01	1.0718E+02	1 • 2351E+02	T 7.1866E+01 1.1438E+02 1.3073E+02
RHO	1.0437E+01	4.9250E+01	5.9537E+01	RHO 1.0645E+01 5.0154E+01 6.1127E+01
Н	2.35076+02	4.2041E+02	5.1122E+02	H 2.5813E+02 4.6146E+02 5.6131E+02
A	8.5858E+00		1.2725E+01	A 8.9208E+00 1.2151E+01 1.3295E+01
2	1.5165F+00		1.6722E+00	
ž.	1.4856E+00		1.80498+00	
GAME				
	7.1617E-01		7.2643E-01	GAME 7.2026E-01 7.3305E-01 7.2459E-01
u.	2.4087E+01	5.0967E+00	5.1159E+00	U 2.5275E+01 5.3706E+00 5.3550E+00
SPECIES		MOLE FRACTIONS		SPECIES MULE FRACTIONS
3, 20123				TOCK TRACTIONS
€-	3.26856-01	4.1382E-01	4.4595E-01	E- 3.4956E-01 4.3215E-01 4.6410E-01
Α ΄	3.4643E-01	1.8364E-01	1.4280E-01	A 3.0112E-01 1.5655E-01 1.2296E-01
40 - 40	3.2658E-01	3.9127E-01	3.7657E-01	A+ 3.4908E-01 3.9046E-01 3.6185E-01
A++	1.3837E-04	1.1273E-02	3.4652E-02	A++ 2.4180E-04 2.0838E-02 5.1025E-02
A+++	1.2746E-11	1.1263E-06	2.2896E-05	A+++ 4.7951E-11 5.4184E-06 6.8356E-05
A++++	6.9121E-23	1.8873E-13	5.6424E-11	A++++ 7.9083E-22 3.4552E-12 4.5771E-10
AV	2.9930E-38	5.7675E-23	5.4941E-19	
AVI	4.8595E-58	1.7132E-35	1.1682E-29	The state of the s
AVII		3.9666E-52	8.6277E-44	
	1.0356E-84			AVII 3.0697E-81 5.3232E-48 1.0097E-40
AVIII	0.	2.1343E-72	3.8867E-61	AVIII 0. 7.4951E-67 5.3620E-57

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	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.23016+03	1.0658E+04	1.5733E+04	P	1.3411E+03	1.1781E+04	1.7372E+04
T	7.3233E+01	1.1786E+02	1.34145+02	r	7.6177E+01	1.2430E+02	1.4074E+02
RHO	1.0741E+31	5.0553E+01	6.1834E+01	RHO '	1.08852+01	5.1425E+01	6.2973E+01
Н	2.6972E+02	4.8258E+02	5.8689E+02	H	2.9367E+02	5.2613E+02	6.3936E+02
A	9.0990E+00	1.2403E+01	1.35816+01	Ä	9.4818E+00	1.2892E+01	1.41635+01
ŝ	1.5635E+00	1.6635E+00	1.7276E+00	Ŝ	1.5953E+00	1.6973E+00	1.7641E+00
ž	1.5638E+00	1.7888E+00	1.8968E+00	Ž	1.61745+00	1.8429E+00	1.9600E+00
GAME	7.2292E-01	7.2970E-01	7.2489E-01	GAME	7.2970E-01	7.2549E-01	7.2717E-01
U	2.5861E+01	5.4964E+00	5.4662E+00	U	2.7622E+01	5.7263E+00	5.6789E+00
	2.30016.401	3.4704E7UU	3.400ZE VOO	U	2.102224-01	J. 1203C+00	3.010 % +00
SPECIES		- MOLE FRACTIONS		SPEC 1ES		- MOLE FRACTIONS	
E-	2 (35(5.01				3.8172E-01	4 57105 01	4.8981E-01
	3.60545-01	4.4097E-01	4.7280E-01	E-		4.5739E-01	
A .	2.7924E-01	1.4503E-01	1.1422E-01	A	2.37136-31	1.2596E-01	9.8160E-02
Δ+	3.5990E-01	3.8703E-01	3.5327E-01	A +	3.80575-01	3.7595E-01	3.3450E-01
A++	3.2098E-04	2.6955E-02	5.9604E-02	A++	5.7456E-04	4.0670E-02	7.7289E-02
A+++	9.4126E-11	1.0658E-05	1.0826E-04	A+++	3.7776E-10	3.26206-05	2.4197E-04
A+++	2.7313E-21	1.2216E-11	1.1171E-09	A++++	3.4818E-20	1.0094E-10	5.4302F-09
AV	1.0150E-35	4.3343E-20	6.8352E-17	AV	5.6353F-34	··1.2755E-18	9.0224E-16
AVI	2.31738-54	2.5986E-31	1.4033E-26	AVI -	7.7403E-52	3.6439E-29	6.3747E-25
AVII	1.8562E-79	3.4003E-46	2.1292E-39	AVII	7.04328-76	3.8474E-43	4.9725E-37
IIIVA	0.	1.9988E-64	3.2894E-55	IIIVA	. `	2.5825E-60	5.2340E-52 **
						•	
		•					
		•		1	•		
P1 = 1	.00E+04 N/Su-M	. US1= 9.40E+0	3 M/SEC	P1 = 1	00E+04 N/SU-H	. US1= 9.80E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MONTHE CHUCK	STANDING SHOCK	REFLECTED SHOCK
P	1.2851F+03	1.1219E+04		P	1.39825+03	1.2341E+04	1.81818+04
í			1.6555E+04	Ť			
RHD	7.4666E+31	1.2111E+02	1.3753E+02	RHÚ.	7.7777E+01	1.2739E+02	1.4396E+02
	1.0821E+01	5.1024E+01	6.2496F+01		1.0932E+01	5.1781E+01	6.3381E+01
H	2.8157E+02	5.0414E+02	6.1291E+02	H .	3.0601E+02	5.4853E+02	6.6625E+02
A	9.2856E+00	1.2645E+01	1.38765+01	4	9.6883E+00	1.3141E+31	1.4460E+01
Ş	1.5794E+00	1.6802E+00	1.7463E+00	Ş	1.6112E+00	1.7145E+00	1.7824E+00
2	1.5905E+00	1.8154E+00	1.9289E+00	Z	1.6444E+00	1.6708E+03	1.9925E+00
GAME	7.2605E-01	7.2720E-01	7.25825-01	GAME	7.3388F-01	7.2458E-01	7.2891E-01
· U	2.6443E+01	5.6144E+00	5.5738E+00	U	2.7597E+01	5.8326E+00	5.7826E+00
SPECIES		~ MOLE FRACTIONS		SPEC 1E S		- MOLE FRACTIONS	
E-	3.7127E-01	4.4917E-01	4.8156E-01	ε-	3.9188E-01	4.6547E-31	4.9813E-01
A	2.57905-01	1.3518E-01	1.0577E-01	Α	2.1701E-01	. 1.1744E-01	9.07085-02
A+	3.7041E-01	3.8214E-01	3.4393E-01	4+	3.9033E-01	3.6876E-01	3.2455E-01
A++	4.2810E-04	3.3484E-02	6.8566E-02	A++	7.7706E-04	4.8275E-02	8.6269E-02
A+++	1.8702E-13	1.9106E-05	1.6588E-04	A+++	7.7853E-10	5.28966-05	3.4577E-04
A++++	9.6097E-21	3.6639E-11	2.575CE-09	A++++	1.3082E-19	2.5401E-10	1.1055E-08
AV	7.3893E-35	2.51016-19	2.66275-16	AV	4.55745-33	5.6332E-18	2.8958E-15
AVI	4.0914E-53	3.3779E-30	1.0459E-25	· IVA	1.6089£-50	3.2163E-28	3.5967E-24 .
AVII	1.0871E-77	1.3050E-44	3.7515E-38	IIVA	5.34976-74	8.5476E-42	5.8929E-36
IIIVA	J.	2.7102E-62	1.58805-53	IIIVA) .	1.6877E-58	1.4926E-50
		_					

P1 =	1.00E+04 N/SQ-M	. US1= 1.00E+0	4 M/SEC	P1 = 1.	00E+04 N/SU-M	. US1= 1.04E+0	4 M/SEC
	•	•					
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	1.4562E+03	1.2894E+04	1.8978E+04	ρ	1.5749E+03	1.3973E+04	2.0515E+04
ŕ	7.9482E+01	1.3040E+02	1.4715E+02	Ť	8.3263E+01	1.3617E+02	1.5348E+02
RHO	1.0960F+01	5.2061E+01	6-3669E+01	RHO	1.0963E+01	5.2429E+01	6.3826E+01
н	3.1860E+02	5.7131E+02	6.935BE+02	. н	3.4452E+02	6.1804E+02	7.4949E+02
Ä	9.90575+00	1.3394E+01	1.4760E+01	 A	1.03725+01	1.3905E+01	1.53755+01
ŝ	1.6271E+00	1.7317E+00	1 . 800 7E +00	Š	1.6587E+00	1.7661E+00	1.8378E+00
ž	1.67155+00	1.8992E+00	2.0256E+00	ž	1.7253E+00	1.95726+00	2.0942E+00
GAME	7.3857E-01	7.2435E-01	7.3091E-01		7.4888E-01	7.2549E-01	7.3545E-01
U	2.81678+01	5.9387E+00	5.8855E+00	Ü	2.9295E+01	6.1328E+00	6.0890E+00
				•			,
SPEC IF	s	- MOLE FRACTIONS		. SPECIES		- MOLE FRACTIONS	
c	4 01745-01	4.7347E-01	5 04335-01	E-	6 206 NE - 01	4 90095-03	6 2246É-01
E-	4.0174E-01 1.9758E-01	1.0945E-01	5.0633E-01 8.3591E-02	E-	4.204JE-01 1.6124E-01	4.8908E-01 9.4893E-02	5.2249E-01 7.0181E-02
A+		3.6077E-01		A A+			2.9306E-01
A++	3.9962E-01 1.0604E-03	5.6229E-02	3.1432E-01 9.5277E-02	A++	4.1633E-01 2.0339E-03	3.4316E-01 7.2692E-02	1.1338E-01
***		8.223UE-05	4.8237E-04	A+++	7.881 OF -09	1.7816E-04	8.8947E-04
A++++	1.6419E-09 5.1221E-19	5.9337E-10	2.1570E-08	A++++	8.9534E-18	2.6696E-09	7.4732E-08
AV	3.9335E-32	2.21698-17	8.6975E-15	AV	3.5446E-30	2.5443E-16	6.7750E-14
AVI	3.6654E-49	2.4064E-27	1.8435E-23	ÄVI	2.4403E-46	8.7667E-26	
AVII	4.6303E-72	1.4998E-40	6.1189E-35	IIVA	4.63635-68	2.5353E-38	4.8537E-33
· IIIVA		8.0496E-57	3.5252E-49	IIIVA).	8.1524E-54	1.31416-46
~****	,		3032322 47		••	***************************************	
			•	•			•
P1 =	1.00E+04 N/SQ-M	, US1= 1.02E+0	4 M/SEC	P1 = 1.	.00E+04 N/SQ-M	, USI= 1.06E+Ö	i4 M/SEC
P1 =	1.00E+04 N/SQ-M	, US1= 1.02E+0	4 M/SEC		00E+04 N/SQ-M	, USI= 1.06E+Ö	4 M/SEC
P1 =			•				
٠.	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	**************************************	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P .	MOVING SHOCK 1.5152E+03	STANDING SHOCK 1.3452E+04	REFLECTED SHOCK 1.9777E+04	P	MOVING SHOCK - 1.6357E+03	STANDING SHOCK- 1.4492E+04	REFLECTED SHOCK 2.1254E+04
P T	MOVING SHOCK 1.5152E+03 8.1268E+01	STANDING SHOCK 1.3452E+04 1.3333E+02	REFLECTED SHOCK 1.9777E+04 1.5028E+02	P	MOVING SHOCK - 1.6357E+03 8.5361E+01	STANDING SHOCK 1.4492E+04 1.3897E+02	REFLECTED SHOCK 2.1254E+04 1.5656E+02
Р Т ЯНО	MDVING SHOCK 1.5152E+03 8.1268E+01 1.9961E+01	STANDING SHOCK 1.3452E+04 1.3333E+02 5.2332E+01	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01	P T RHO	MDVING SHOCK 1.6357E+03 8.5361E+01 1.0939E+01	STANDING SHOCK- 1.4492E+04 1.3897E+02 5.2482E+01	REFLECTED SHOCK 2.1254E+04 1.5656E+02 6.3789E+01
P T RHO H	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02	STANDING SHOCK 1.3452E+04 1.3333E+02 5.2332E+01 5.9452E+02	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02	P T RHO H	MOVING SHOCK 1.6357E+03 8.5361E+01 1.0939E+01 3.5784F+02	STANDING SHOCK 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02	REFLECTED SHOCK 2-1254E+04 1-5656E+02 6-3789E+01 7-7817E+02
P T RHO H	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01	STANDING SHOCK 1.3452E+04 1.3333E+02 5.2332E+01 5.9452E+02 1.3648E+01	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01	P T RHO H	MOVING SHOCK 1.6357E+03 8.5361E+01 1.0939E+01 3.5744E+02 1.0616E+01	> STANDING SHOCK- 1.4492E+04 L.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01	REFLECTED SHOCK 2.1254E+04 1.5656E+02 6.3789E+01 7.7817E+02 1.5679E+01
P T RHO H A S	MOVING SHOCK 1-5152E+03 8-1268E+01 1-0961E+01 3-3144E+02 1-0129E+01 1-6425E+00	STANDING SHOCK 1.3452E+04 1.3333E+02 5.2332E+01 5.9452E+02 1.3648E+01 1.7488E+00	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00	P T RHO H A S	MOVING SHOCK - 1.6357E+03 8.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.6745E+00	STANDING SHOCK 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00	REFLECTED SHOCK 2.1254E+04 1.5656E+02 6.3789E+01 7.7817E+02 1.5679E+01 1.8559E+00
P T RHO H A S	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0981E+01 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00	STANDING SHOCK 1.3452E+04 1.3331E+02 5.2332E+01 5.9452E+02 1.3648E+01 1.7488E+00 1.9279E+00	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00	P T RHO H A S	MOVING SHOCK 1.6357E+03 8.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.6745E+00 1.7517E+00	STANDING SHOCK 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00	REFLECTED SHOCK 2.1254E+04 1.5556E+02 6.3789E+01 7.7817E+02 1.5679E+01 1.8559E+00 2.1282E+00
P T RHO H A S	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00 7.4353E-01	STANDING SHOCK 1.3452E+04 1.333E+02 5.233E+01 5.9452E+02 1.3646E+01 1.7488E+00 1.9279E+00 7.2469E-01	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01	P T RHO H A S Z GAME	MOVING SHOCK - 1.6357E+03 8.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.6745E+00 1.7517E+00 7.5377E-01	**STANDING SHOCK** 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01	REFLECTED SHOCK 2.1254F + 04 1.5656F + 02 6.3789F + 01 7.7817E + 02 1.5679F + 01 1.8559F + 00 2.1282F + 00 7.3779F - 01
P T RHO H A S	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0981E+01 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00	STANDING SHOCK 1.3452E+04 1.3331E+02 5.2332E+01 5.9452E+02 1.3648E+01 1.7488E+00 1.9279E+00	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00	P T RHO H A S	MOVING SHOCK 1.6357E+03 8.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.6745E+00 1.7517E+00	STANDING SHOCK 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00	REFLECTED SHOCK 2.1254E+04 1.5656E+02 6.3789E+01 7.7817E+02 1.5679E+01 1.8559E+00 2.1282E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00 7.4353E-01 2.8735E+01	STANDING SHOCK 1.3452E+04 1.3432E+02 5.2332E+01 5.9452E+02 1.3648E+01 1.7488E+00 1.9279E+00 7.2469E-01 6.0390E+00	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00	P T RHO H A S Z GAME	MOVING SHOCK - 1.6357E+03 8.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.6745E+00 1.7517E+00 7.5377E-01 2.9851E+01	1.4492E+04 1.4992E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01 6.2288E+00	REFLECTED SHOCK 2.1254E + 04 1.5656E + 02 6.3789E + 01 7.7817E + 02 1.5679E + 01 1.8559E + 00 2.1282E + 00 7.3779E - 01 6.1954E + 00
P T RHO H A S	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00 7.4353E-01 2.8735E+01	STANDING SHOCK 1.3452E+04 1.333E+02 5.233E+01 5.9452E+02 1.3646E+01 1.7488E+00 1.9279E+00 7.2469E-01	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00	P T RHO H A S Z GAME	MOVING SHOCK - 1.6357E+03 8.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.6745E+00 1.7517E+00 7.5377E-01 2.9851E+01	**STANDING SHOCK** 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01	REFLECTED SHOCK 2.1254E + 04 1.5656E + 02 6.3789E + 01 7.7817E + 02 1.5679E + 01 1.8559E + 00 2.1282E + 00 7.3779E - 01 6.1954E + 00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01 1.6478E+00 7.435E+01 2.8735E+01	STANDING SHOCK 1.3452E+04 1.3333E+02 5.2332E+01 5.9452E+02 1.3648E+01 1.7488E+00 1.9279E+00 7.2469E-01 6.0390E+00 - MOLE FRACTIONS 4.8130E-01	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00	P T RHO H A S Z GAME 'U SPECIES	MOVING SHOCK - 1.6357E+03 8.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.6745E+00 1.7517E+00 7.5377F-01 2.9851E+01	- STANDING SHOCK 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01 6.2288E+00	REFLECTED SHOCK 2.1254E + 04 1.5656E+02 6.3789E+01 7.7817E+02 1.5679E+01 1.8559E+00 2.1282E+00 7.3779E-01 6.1954E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00 7.4353E-01 2.8735E+01	STANDING SHOCK 1.3452E+04 1.3333E+02 5.2332E+01 5.9452E+02 1.3648E+01 1.7488E+00 7.2469E-01 6.0390E+00 - MOLE FRACTIONS 4.8130E-01 1.0202E-01	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5065E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00	P T RHO H A S Z GAME U SPECIES E-A	MOVING SHOCK - 1.6357E+03 8.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.6745E+00 1.7517E+00 7.5377F-01 2.9851E+01	STANDING SHOCK 1.492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01 6.2288E+00	REFLECTED SHOCK 2.1254E+04 1.5656E+02 6.3789E+01 7.7817E+02 1.5679E+01 1.8559E+00 2.1282E+00 7.3779E-01 6.1954E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00 7.4353E-01 2.8735E+01	STANDING SHOCK 1.3452E+04 1.333E+02 5.233E+01 5.9452E+02 1.3648E+01 1.7488E+00 1.9279E+00 7.2469E-01 6.0390E+00 - MOLE FRACTIONS 4.8130E-01 1.0202E-01 3.5219E-01	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00	P T RHO H A S Z GAME U SPECIES E-A A +	MOVING SHOCK - 1.6357E+03	- STANDING SHOCK 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01 6.2288E+00	REFLECTED SHOCK 2.1254E + 04 1.5656E + 02 6.3789E + 01 7.7817E + 02 1.5679E + 01 1.8559E + 00 2.1282E + 00 7.3779E - 01 6.1954E + 00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00 7.4353E-01 2.8735E+01	STANDING SHOCK 1.3452E+04 1.3333E+02 5.2332E+01 5.9452E+02 1.3648E+01 1.7488E+00 7.2469E-01 6.0390E+00 - MOLE FRACTIONS 4.8130E-01 1.0202E-01	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5065E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00	P T RHO H A S Z GAME U SPECIES E-A	MOVING SHOCK 1.6357E+03 8.5361E+01 1.0939E+01 3.5784F+02 1.0616E+01 1.6745E+00 1.7517E+00 7.5377E-01 2.9851E+01	STANDING SHOCK 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 7.2665E-01 6.2288E+00 - MOLE FRACTIONS 4.9675E-01 8.8137E-02	REFLECTED SHOCK 2.1254E+04 1.5656E+02 6.3789E+01 7.7817E+02 1.5679E+01 1.8559E+00 2.1282E+00 7.3779E-01 6.1954E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0981E+91 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00 7.4353E-01 2.8735E+01	STANDING SHOCK 1.3452E+04 1.3333E+02 5.2332E+01 5.9452E+02 1.3648E+01 1.7488E+00 1.9279E+00 6.0390E+00 MULE FRACTIONS 4.8130E-01 1.0202E-01 3.5219E-01 6.4374E-02 1.2299E-04	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00	P T RHO H A S Z GAME U SPECIES E-A A +	MOVING SHOCK - 1.6357E+03	1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01 6.2288E+00 - MOLE FRACTIONS 4.9675E-01 8.8137E-02 3.3372E-01	REFLECTED SHOCK 2.1254E +04 1.5656E +02 6.3789E +01 7.7817E +02 1.5679E +01 1.8559E +00 2.1282E +00 7.3779E -01 6.1954E +00 5.3013E -01 6.4156E -02 2.8248E -01
PTRHOMASSZGAMEUUSPECIE	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01 1.6478E+00 7.4353E-01 2.8735E+01 S	STANDING SHOCK 1.345.2E+04 1.333.3E+02 5.233.2E+01 5.945.2E+02 1.364.8E+01 1.748.8E+00 1.9279.E+00 7.246.9E-01 6.0390.E+00 - MOLE FRACTIONS 4.8130.E-01 1.020.2E-01 3.521.9E-01 6.4374.E-02	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00 	P T RHO H A S Z GAME U SPECIES E-A A A++	MOVING SHOCK - 1.6357E+03 8.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.6745E+00 1.7517E+00 7.5377F-01 2.9851E+01	- STANDING SHOCK 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01 6.2288E+00 - MOLE FRACTIONS 4.9675E-01 8.8137E-02 3.3372E-01 8.1138E-02	REFLECTED SHOCK 2.1254E + 04 1.5656E + 02 6.3789E + 01 7.7817E + 02 1.5679E + 01 1.8559E + 00 2.1282E + 00 7.3779E - 01 6.1954E + 00 5.3013E - 01 6.4156E - 02 2.8248E - 01 1.2207E - 01
P T RHO H A S Z GAME U SPECIE E-A A++A++	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0981E+91 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00 7.4353E-01 2.8735E+01	STANDING SHOCK 1.3452E+04 1.3333E+02 5.2332E+01 5.9452E+02 1.3648E+01 1.7488E+00 1.9279E+00 6.0390E+00 MULE FRACTIONS 4.8130E-01 1.0202E-01 3.5219E-01 6.4374E-02 1.2299E-04	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00 5.1425E-01 7.6940E-02 3.0402E-01 1.0413E-01 6.5577E-04	P T RHO H A S C GAME U SPECIES E-A A A+++ A+++	MOVING SHOCK 1.6357E+03 4.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.7517E+00 7.5377E+01 2.9851E+01 4.2912E+01 1.4461E+01 4.2341E+01 2.8653E+03 1.7915E+08	**STANDING SHOCK 1.492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01 6.2288E+00 *** **MOLE FRACTIONS 4.9675E-01 8.8137E-02 3.3372E-01 8.1138E-02 2.5161E-04	REFLECTED SHOCK 2.1254E+04 1.5656E+02 6.3789E+01 7.7817E+02 1.5679E+01 1.8559E+00 7.3779E-01 6.1954E+00 5.3013E-01 6.4156E-02 2.8248E-01 1.2207E-01 1.1699E-03
P T RHO M A S Z GAME U SPECIE E-A A++++	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+00 7.4353E-01 2.8735E+01 S	STANDING SHOCK 1.3452E+04 1.3452E+04 1.3333E+02 5.233ZE+01 5.945ZE+02 1.364BE+01 1.748BE+00 1.9279E+00 7.2469E-01 6.0390E+00 - MULE FRACTIONS 4.8130E-91 1.0202E-01 3.5219E-01 6.4374E-02 1.2299E-04 1.2295E-04	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00 5.1425E-01 7.6940E-02 3.0402E-01 1.0413E-01 6.5577E-04 4.3313E-08	P T RHO H A S Z GAME U SPECIES E-A A+A++A+++	MOVING SHOCK - 1.6357E+03	- STANDING SHOCK 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01 6.2288E+00 - MOLE FRACTIONS 4.9675E-01 8.8137E-02 3.3372E-01 8.1138E-02 2.5161E-04 5.2633E-09	REFLECTED SHOCK 2.1254E + 04 1.5656E+02 6.3789E+01 7.7817E+02 1.5679E+01 1.8559E+00 2.1282E+00 7.3779E-01 6.1954E+00 5.3013E-01 6.4156E-02 2.8248E-01 1.2207E-01 1.1699E-03 1.3131E-07
P T RHO M A S Z GAME U SPECIE E-A A++ A+++ A++++ AV	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0961E+01 3.3144E+02 1.0129E+01 1.6478E+00 7.4353E-01 2.8735E+01 \$	STANDING SHOCK 1.345.2E+04 1.333.3E+02 5.233.2E+01 5.945.2E+02 1.364.8E+01 1.748.8E+00 1.9279.E+00 7.246.9E-01 6.039.0E+00 MULE FRACTIONS 4.813.0E-01 1.020.2E-01 3.521.9E-01 6.43.74E-02 1.22.99.E-04 1.29.54E-09 7.85.99.E-17	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00 5.1425E-01 7.6940E-02 3.0402E-01 1.0413E-01 6.5677E-04 4.3313E-08 2.4430E-14	P T RHO H A S Z GAME U SPECIES E-A A A++ A+++ A+++ AV	MOVING SHOCK - 1.6357E+03	- STANDING SHOCK 1.4492E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01 6.2288E+00 - MOLE FRACTIONS 4.9675E-01 8.8137E-02 3.3372E-01 8.1138E-02 2.5161E-04 5.2633E-09 7.6935E-16	REFLECTED SHOCK 2.1254E+04 1.5656E+02 6.3789E+01 7.7817E+02 1.5679E+01 1.8559E+00 2.1282E+00 7.3779E-01 6.1954E+00 5.3013E-01 6.4156E-02 2.8248E-01 1.2207E-01 1.1699E-03 1.3131E-07
P T RHO H A S Z GAME U SPECIE E A A + + + + + + + + + + + + + + + +	MOVING SHOCK 1.5152E+03 8.1268E+01 1.0981E+01 3.3144E+02 1.0129E+01 1.6425E+00 1.6978E+0 7.4353E-01 2.8735E+01	STANDING SHOCK 1.3452E+04 1.3333E+02 5.2332E+01 5.9452E+02 1.3648E+01 1.7488E+00 1.9279E+00 7.2469E-01 6.0390E+00 - MOLE FRACTIONS 4.8130E-01 1.0202E-01 3.5219E-01 6.4374E-02 1.229E-04 1.2954E-09 7.8599E-17 1.5517E-26	REFLECTED SHOCK 1.9777E+04 1.5028E+02 6.3925E+01 7.2141E+02 1.5063E+01 1.8186E+00 2.0587E+00 7.3308E-01 5.9890E+00 5.1425E-01 7.6940E-02 3.0402E-01 1.0413E-01 6.5577E-04 4.3313E-08 2.4430E-14 8.5846E-23	P T RHO H A S C GAME U SPECIES E-A A++ A+++ A+++ AV	MOVING SHOCK - 1.6357E+03 8.5361E+01 1.0939E+01 3.5784E+02 1.0616E+01 1.6745E+00 1.7517E+00 7.5377F-01 2.9851E+01	**STANDING SHOCK 1.4892E+04 1.3897E+02 5.2482E+01 6.4195E+02 1.4165E+01 1.7834E+00 1.9871E+00 7.2665E-01 6.2288E+00 **MOLE FRACTIONS 4.9675E-01 8.8137E-02 3.3372E-01 8.1138E-02 2.5161E-04 5.2633E-09 7.6935E-16 4.4951E-25	REFLECTED SHOCK 2.1254E+04 1.5656E+02 6.3789E+01 7.7817E+02 1.5679E+01 1.8559E+00 2.1282E+00 7.3779E-01 6.1954E+00 5.3013E-01 6.4156E-02 2.8248E-01 1.2207E-01 1.1699E-03 1.3131E-07 1.7266E-13 1.5853E-21

P1 = 1.00E+04 N/SQ-M;	US1= 1.08E+04 M/SEC	P	1 = 1.00E+04 N/54-M.	US1= 1.15E+0	4 M/SEC
MOVING SHOCK S P 1.6974E+03 T 8.7598E+01 RHO 1.0901E+01	1.4166E+02 1.596) SHOCK 69E+04 P 67E+02 T 66E+01 RH	1.9217E+03 9.6074E+01	STANDING SHOCK 1.6785E+04 1.5130E+02 5.2158E+01	REFLECTED SHOCK 2.4522E+04 1.7085E+02 6.2704E+01
H 5 3.7141E+02	6.6622E+02 8.071	L1E+02 . H	4.2089E+02	7.5443E+02	9.13305+02
A 1:0861E+01	1.442ZE+01 1.599	90E+01 - A	1.1611E+01	1.5376E+01	1.7106E+01
S 1.6901E+00		-5E+00 S	1.7432E+00	1.8615E+00	1.9394E+00
Z 1.1775E+00		34E+00 2	1.8633E+20	2.1270E+00	2.2890E+30
GAME 7.57615-01			ME 7.5432E-01	7.3469E-01	7.4827E-01
U 3.0404E+01		34E+00 U	3.2329E+01	6.67226+00	6.6828E+00
• 3007,712.01		•	3123272.01	***************************************	55555555
* * * *	· · · ·	• •			
SPECIES	MOLE FRACTIONS	SP	ECIES	MOLE FRACTIONS	*************
E- 4.3740E-01	. 5.0410E-01 5.37	776E-01 E-	4.6246E-31	5.2985E-01	5.6313E-01
A 1.2924E-01	8.1903E-02 5.83	327E-02 A	8.7858E-92	6.1614E-32	4.0637E-02
A+ 4.2933E-01	3.2424E-01 2.71	160E-01 A+	4.36925-31.	2.8617E-01	2.3289E-01
A++ 4.0349E-03	8.9415E-02 1.30	79E-01 4++		1.19438-01	1.5980E-01
A+++ 4.1459E-08		248E-03 4++		9.4016E-04	3.5438E-03
A++++ 1.8414E-16;		732E-07 A++		7.4285E-08	1.3522E-06
AV 4.0883E-28		007E-13 AV	1.4090E-24.	5.9639E-14	8.5262E-12
AVI 2.2824E-43		107E-21 . AVI		2.8642E-22	5.4799E-19
AVII 7:1657E-64"		79E-31 AVE		2.6525E-33	1.5333E-28
AVIII9:7124E-89		59E-44 AVI		4.974JE-47	1.63U4E-40
* T. T.			,		
	No.				•
	~		, .		•
P1 = 1.00E+04 N/Su-M,	US1= 1.10E+04 M/SEC	f	1 = 1.00E+04 N/SQ-M	, . US1= 1.23E+0	4 M/SEC
P1 = 1.00E+04 N/Su-M.	US1= 1.10E+04 M/SEC	F	P1 = 1.00E+04 N/SQ-M	, , US1= 1.23E+0	
P1 = 1.00E+04 N/Su-4,	US1= 1-10E+04 M/SEC				4 M/SEC
	USI= 1.10E+04 M/SEC			, US1= 1.23E+0	
	STANDING SHOCK REFLECTED				REFLECTED SHOCK 2+6543E+04
" MOVENG SHOCK	STANDING SHOCK REFLECTED 1.5497E+34 2.26) SHOCK	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK 2+6543E+04
MOVING SHOCK 1.7600E+03	STANDING SHOCK REFLECTE 1.5497E+34 2.26 1.4445E+02 1.62) SHOCK 80E+34	MOVING SHOCK 2.0912E+03 1.0210E+02	STANDING SHOCK 1.8181E+04	REFLECTED SHOCK
MOVING SHOCK P 12.7600E+03 T 8.9958E+01	STANDING SHOCK REFLECTE: 1.5497E+34 2.26: 1.6445E+02 1.62: 5.2377E+01 6.33	3 SHOCK 80E+34 P 8ZE+C2 T	MOVING SHOCK 2.0912E+03 1.0210E+02	STANDING SHOCK 1.8181E+04 1.5832E+02	REFLECTED SHOCK 2.6543E+04 1.7929E+02 6.2201E+01
MOVING SHOCK P 1.7600E+03 T 8.9958E+01 RHO 1.0855F+01 H 3.8523E+02	STANDING SHOCK REFLECTE: 1.5497E+04 2.26 1.4445E+02 1.62: 5.237.TE+01 6.33: 6.9086E+02 3.36	J SHOCK 80E+34 P 82E+02 T 43F+01 RF 75E+02 H	MOVING SHOCK 2.0912F+03 1.0210E+02 10 1.0693E+01 4.5815E+02	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01	REFLECTED SHOCK 2.6543E+04 3.1-1-7929E+02 6.2201E+01 9.9393E+02
MOVING SHOCK P 1.7600E+03 I 8.9958E+01 RHO 1.0855F+01 H 38623E+02 A 1.1098E+01	STANDING SHOCK REFLECTED 1.5497E+04 2-26 1.6445E+02 1.62 5-2377E+01 6.33 6-90866+02 3-36 1.4694E+01 1.63	D SHOCK 80E+34	MOVING SHOCK 2.0912E+03 1.0210E+02 10 1.0693E+01 4.5815E+02 1.2041E+01	STANDING SHOCK 1.0181E+04 1.5832E+02 5.2015E+01 8.2102E+02	REFLECTED SHOCK 2-6543E+04 1-7929E+02 6-2201E+01 9-9393E+02 1-7929E+01
MOVING SHOCK P 1.7602E+33 T 8.9958E+01 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00	STANDING SHOCK REFLECTE: 1.5497E+04 2.26: 1.4445E+02 1.62: 5.23.77E+01 6.33: 6.9086E+02 3.36: 1.4694E+01 1.63: 1.8181E+00 1.89:	D SHOCK 80E+34 P 82E+02 T 43F+01 R 75E+02 H 06E+01 A	MOVING SHOCK 2.0912E+03 1.0210E+02 10.0693E+01 4.5815E+02 1.2041E+01 1.7809E+30	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00	REFLECTED SHOCK 2.6543E+04 1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00
MOVING SHOCK P 1.7600E+33 T 8.9958E+01 RHO 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.4024F+00	STANDING SHOCK REFLECTE: 1.5497E+04 2.26i 1.4445E+02 1.62i 5.23.77E+01 6.33 6.9086E+02 3.36i 1.4694E+01 1.63i 1.818E+00 1.69i 2.0483E+00 2.19	D SHOCK 80E+34 P 82E+02 T 49F+01 R 75E+02 H 30E+01 A 31E+00 S	MOVING SHOCK 2.0912F+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.4154E+00	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00	REFLECTED SHOCK 2.6543E+04 :l.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00
MOVING SHOCK P 1.7600E+33 I 8.9958E+01 RH0 1.0855E+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.d024E+00 GAME 7.5963E-01	STANDING SHOCK REFLECTED 1.5497E+04 2.260 1.620 5.237.7E+01 6.33 6.9086E+02 1.660 1.4694E+01 1.630 1.8181E+00 1.699 2.0483E+00 2.199 7.2979E-01 7.425	D SHOCK 80E+34 P 82E+62 I 45F+01 R 75E+62 H 06E+01 A 31E+00 S 90E+00 Z 68E-01 G	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.9154E+00	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00	REFLECTED SHOCK 2.6543E+04 1.1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01
MOVING SHOCK P 1.7600E+33 I 8.9958E+01 RHO 1.0855F+01 H 3.8523F+02 A 1.1098E+01 S 1.7056E+00 Z 1.0224F+00 GAME 7.596JE-01	STANDING SHOCK REFLECTED 1.5497E+04 2.260 1.620 5.237.7E+01 6.33 6.9086E+02 1.660 1.4694E+01 1.690 1.8181E+00 1.690 2.0483E+00 2.190 7.2979E-01 7.425	D SHOCK 80E+34 P 82E+62 I 45F+01 R 75E+62 H 06E+01 A 31E+00 S 90E+00 Z 68E-01 G	MOVING SHOCK 2.0912F+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.4154E+00	STANDING SHOCK 1.58181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00 7.4008E-01	REFLECTED SHOCK 2.6543E+04 :l.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00
MOVING SHOCK P 1.7600E+33 I 8.9958E+01 RH0 1.0855E+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.d024E+00 GAME 7.5963E-01	STANDING SHOCK REFLECTED 1.5497E+04 2.260 1.620 5.237.7E+01 6.33 6.9086E+02 1.660 1.4694E+01 1.690 1.8181E+00 1.690 2.0483E+00 2.190 7.2979E-01 7.425	D SHOCK 80E+34 P 82E+62 I 45F+01 R 75E+62 H 06E+01 A 31E+00 S 90E+00 Z 68E-01 G	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.5154F+00 ME 7.4142E-01 3.3716E+01	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00 7.4008E-01 6.9392E+00	REFLECTED SHOCK 2.6543E+04 1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00
MOVING SHOCK P 1.7600E+33 I 8.9958E+01 RH0 1.0855E+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.d024E+00 GAME 7.5963E-01	STANDING SHOCK REFLECTED 1.5497E+04 2.260 1.620 5.237.7E+01 6.33 6.9086E+02 1.660 1.4694E+01 1.690 1.8181E+00 1.690 2.0483E+00 2.190 7.2979E-01 7.425	D SHOCK 80E+34 P 80E+34 P 82E+62 I 43F+01 R 75E+62 H 06E+01 A 31E+00 S 90E+00 Z 68E-01 G 66E+00 U	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.5154F+00 ME 7.4142E-01 3.3716E+01	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00 7.4008E-01 6.9392E+00	REFLECTED SHOCK 2.6543E+04 1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00
MOVING SHOCK P 1.7600E+33 I 8.9958E+01 RH0 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.4024F+00 GAME 7.596JE-01 U 3.9954E+01	STANDING SHOCK REFLECTE: 1.5497E+04 2.26: 1.4445E+02 1.62: 5.23.77E+01 6.33: 6.9086E+02 3.36: 1.4694E+01 1.69: 2.0483E+00 2.19: 7.2979E-01 7.42: 6.4225E+00 6.40:	D SHOCK 80E+34 P 80E+34 P 82E+62 I 43F+01 R 75E+62 H 06E+01 A 31E+00 S 90E+00 Z 68E-01 G 66E+00 U	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.5154F+00 ME 7.4142E-01 3.3716E+01	STANDING SHOCK 1.58181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00 7.4008E-01	REFLECTED SHOCK 2.6543E+04 1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00
MOVING SHOCK P 1.7600E+33 I 8.9958E+01 RH0 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.4024F+00 GAME 7.596JE-01 U 3.9954E+01	STANDING SHOCK REFLECTED 1.5497E+014 1.6497E+014 1.625	D SHOCK 80E+34 P 80E+34 P 82E+62 I 43F+01 R 75E+62 H 06E+01 A 31E+00 S 90E+00 Z 68E-01 G 66E+00 U	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.5154F+00 ME 7.4142E-01 3.3716E+01	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00 7.4008E-01 6.9392E+00	REFLECTED SHOCK 2.6543E+04 1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00
MOVING SHOCK P 1.7600E+33 T 8.9958E+01 RHO	STANDING SHOCK REFLECTE(1.5497E+014 2.26) 1.4445E+02 1.62) 5.23.77E+01 6.33 6.9086E+02 3.36 1.4694E+01 1.63) 1.8181E+00 1.69 2.0483E+00 2.197 7.2979E-01 7.422 6.4225E+00 6.403	D SHOCK 80E+34 P 80E+34 P 82E+02 I 43F+01 R 75E+02 H 31E+00 S 80E+01 A 36E+00 U SF	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.9154F+00 ME 7.4142E-01 3.3716E+01	STANDING SHOCK 1.58181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+03 2.2377E+00 7.4008E-01 6.9392E+00	REFLECTED SHOCK 2.654 3E+04 2.654 3E+04 2.1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00
MOVING SHOCK P 1.7600E+33 T 8.9958E+01 RHO 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.024F+00 GAME 7.596JE-01 U 3.9954E+01 SPECIES	STANDING SHOCK REFLECTE(1.5497E+04 2.26) 1.4445E+02 1.62) 5.237.7E+01 6.33 6.9086E+02 3.6 1.4694E+01 1.63) 1.8181E+00 1.99 2.0483E+00 2.19 7.2979E-01 7.42 6.4225E+00 6.40 MOLE FRACTIONS 5.1178E-01 5.45 7.5573E-02 5.26	D SHOCK 80E+34 P 82E+62 T 49F+01 R 75E+62 H 106E+01 A 11E+00 S 90E+00 Z 68E-01 GA 36E+00 U SF 125E-01 E- 1317E-02 A	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.5154F+00 3.3716E+01	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00 7.400E+01 6.9392E+00 - MOLE FRACTIONS 5.4703E-01	REFLECTED SHOCK 2.654 3E+04 2.654 3E+04 2.1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00
MOVING SHOCK P 1.7600E+33 T 8.9958E+01 RHO 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.4024E+00 GAME 7.5963E-01 U 3.9954E+01 SPECIES E- 4.4519E-01 A 1.1531E-01	STANDING SHOCK REFLECTE(1.5497E+014 2.26(1.649Fe02 1.62(5.237.7E+01 6.33(6.9086E+02 3.36(1.4694E+01 1.63(1.8181E+00 1.69(2.0483E+00 2.19(7.2979E-01 7.42(6.4225E+00 6.40(MOLE FRACTIONS 5.1178E-01 5.45(7.5573E-02 5.28(3.1399E-01 2.60(D SHOCK 80E+34 P 80E+34 P 82E+62 T 45F+01 R 75E+62 H 00E+01 A 81E+00 S 90E+00 Z 86E-01 GA 86E+00 U SF 825E-01 E- 817E-02 A 817E-02 A	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0409E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.9154F+00 3.3716E+01 2.60156E+01 4.7792E-01 6.9115E-02 4.2802E-01	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+03 2.2077E+00 7.4008E-01 6.9392E+00 -MOLE FRACTIONS 5.4703E-01 4.9475E-02	REFLECTED SHOCK 2.6543E+04 1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00
MOVING SHOCK P 1.7600E+33 T 8.9958E+01 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.024F+00 GAME 7.596JE-01 U 3.9954E+01 SPECIES E- 4.4519E-01 A 1.1531E-01 A+ 4.3379E-01 A++ 5.7019E-03	STANDING SHOCK REFLECTE(1.5497E+014 2.26(1.4445E+02 1.62(5.2377E+01 6.33(6.9086E+02 3.36(1.4694E+01 1.63(1.8181E+00 2.9(7.2979E-01 7.42(6.4225E+00 6.40(MOLE FRACTIONS 5.1178E-01 7.5573E-02 5.26(3.1399E-01 2.66(9.8191E-02 1.35(D SHOCK 80E+34 P 80E+34 P 82E+02 I 43F+01 R 75E+02 H 31E+00 S 80E+01 G 36E+00 U SF 625E-01 E- 817E-02 A 339E-01 A+	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+03 1.9154E+00 7.4142E-01 3.3716E+01 PECIES 4.7792E-01 6.9115E-02 4.2802E-01 2.4941E-02	STANDING SHOCK 1.58181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00 7.4008E-01 6.9392E+00 - MOLE FRACTIONS 5.4703E-01 4.9475E-02 2.6170E-01	REFLECTED SHOCK 2.6543E+04 1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00
MOVING SHOCK P 1.7600E+33 I 8.9958E+01 RHO 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.d024F+00 GAME 7.5963E-01 U 3.9954E+01 SPEC.IES E- 4.4519E-01 A 1.1531E-01 A 1.1531E-01 A+ 4.3379E-01 A+ 5.7019E-03 A++ 9.6420E-08	STANDING SHOCK REFLECTED 1.5497E+014 1.6497E+014 1.621 1.622	D SHOCK 80E+34 P 80E+34 P 80E+34 P 82E+C2 I 43F+01 RH 75E+C2 H 31E+00 S 90E+00 Z 80E+01 G 36E+01 G 31F-02 A 57E-01 E- 317E-02 A 639E-01 A+ 639E-01 A+ 639E-01 A+	MOVING SHOCK 2.0912E+03 1.0210E+02 10.0693E+01 4.5815E+02 1.7809E+01 1.7809E+01 3.3716E+01 PECIES 4.7792E-01 6.9115E-02 4.2802E-01 2.4941F-02 3.8776E-06	STANDING SHOCK 1.58181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+03 2.2377E+00 7.4308E-01 6.9392E+00 MOLE FRACTIONS 5.4703E-01 4.9475E-02 2.6170E-01 1.4005F-01 1.7474E-03	REFLECTED SHOCK 2.6543E+04 1.1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.5781E+00 5.7987E-01 3.0589E-02 2.0528E-01 1.7820E-01 6.0565E-03
MOVING SHOCK P 1.7600E+33 I 8.9958E+01 RH0 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.4024F+00 GAME 7.5963E-01 U 3.0954E+01 SPECIES E- 4.4519E-01 A 1.1531E-01 A+ 4.3379E-01 A+ 5.7019E-03 A++ 9.6420E-08 A+++ 8.5715E-16	STANDING SHOCK REFLECTE(1.5497E+04 1.649E+02 1.649E+02 1.621 5.2377E+01 6.33 6.9086E+02 1.4694E+01 1.8181E+00 1.899 2.0483E+00 2.197 7.2979E-01 7.422 6.4225E+00 6.403 MOLE FRACTIONS 5.1178E-01 7.5573E-02 5.22 3.1399E-01 9.8191E-02 1.36 4.7043E-04 1.8266E-08 3.88	D SHOCK 80E+34 P 80E+34 P 80E+54 P 82E+62 I 43F+01 R 75E+62 H 31E+00 S 90E+00 I 36E+01 G 36E+01 G 36E+01 G 36E+00 U SF 525E-01 E- 817E-02 A 819E-01 A+ 839E-01 A+ 839E-01 A+ 8353E-07 A++	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+00 1.9154F+00 3.3716E+01 3.3716E+01 4.7792E-01 6.9115E-02 4.2802E-01 2.4941F-02 3.8776E-06 7.4899E-13	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00 7.4008E-01 6.9392E+00 - MOLE FRACTIONS 5.4703E-01 4.9475E-02 2.6170E-01 1.4005F-01 1.7474E-03 2.6846E-07	REFLECTED SHOCK 2.6543E+04 2.6543E+04 2.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00 5.7987E-01 3.0589E-02 2.0528E-01 1.7820E-01 6.0565E-03 4.3610E-06
MOVING SHOCK P 1.7600E+33 T 8.9958E+01 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.4024F+00 GAME 7.5960E-01 U 3.9954E+01 SPECIES E- 4.4519E-01 A 1.1531E-01 A+ 4.3379E-01 A+ 5.7019E-03 A+++ 9.6420E-08 A++++ 8.5715E-16 AV 4.5819E-27	STANDING SHOCK REFLECTE(1.5497E+04 2.26(1.4445E+02 1.62(5.2377E+01 6.33(6.9086E+02 3.36(1.4694E+01 1.63(1.8181E+00 2.19(7.2979E-01 7.42(6.4225E+00 6.40(MOLE FRACTIONS 5.1178E-01 7.5573E-02 5.26(3.1399E-01 2.60(9.8191E-02 1.33(4.7043E-04 1.98(1.8266E-08 3.88(5.8987E-15 1.04(D SHOCK 80E+34 P 80E+34 P 80E+34 P 82E+02 I 75E+01 R 75E+02 H 31E+00 S 90E+00 Z 56E-01 G 64E+00 U SF 625E-01 E- 817E-02 A 157E-01 A+ 160E-03 A+ 160E-03 A+ 160E-03 A+ 162E-07 A+ 162E-07 A+ 162E-07 A+	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+02 1.9154E+00 ME 7.4142E-01 3.3716E+01 PECIES 4.7792E-01 6.9115E-02 4.2802E-01 2.4941E-02 4.38776E-06 4.74899E-13 1.9783E-22	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00 7.4008E-01 6.9392E+00 MOLE FRACTIONS 5.4703E-01 4.9475E-02 2.6170E-01 1.7474E-03 2.6846E-07 5.0574E-13	REFLECTED SHOCK 2.654 3E+04 1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00 5.7987E-01 3.0599E-02 2.0528E-01 1.7820E-01 6.0565E-03 4.3610E-06 6.2015E-11
MOVING SHOCK P 1.7600E+33 T 8.9958E+01 RHO	STANDING SHOCK 1.5497E+04 1.6497E+04 1.649E+02 5.237.7E+01 6.9086E+02 1.4694E+01 1.8181E+00 2.0483E+00 2.197 7.2979E-01 6.4225E+00 MOLE FRACTIONS 5.1178E-01 7.5573E-02 3.1399E-01 9.8191E-02 1.8266E-08 3.88 5.9887E-15 1.04	D SHOCK 80E+34 80E+34 80E+54 75E+62 T 43F+01 RH75E+62 H 00E+01 A 31E+00 C 58E-01 G 68E-01 G 75E+00 G 75E-01 G 75E	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0209E+02 1.0693E+01 4.5815E+02 1.7809E+00 1.7809E+00 1.9154F+00 ME 7.4142E-01 3.3716E+01 PECIES 4.7792E-01 6.9115E-02 4.2802E-01 2.4941F-02 4.38776E-06 7.4899E-13 1.9783E-22 3.7666E-35	STANDING SHOCK 1.58181E-04 1.5832E-02 5.2015E-01 8.2102E-02 1.6083E-01 1.9046E-00 2.2077E+00 7.4008E-01 6.9392E+00 - MOLE FRACTIONS 5.4703E-01 4.9475E-02 2.66170E-01 1.4005E-01 1.4747E-03 2.6846E-07 5.0574E-13 6.9930E-21	REFLECTED SHOCK 2.6543E+04 1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3892E+00 7.5330E-01 6.9781E+00
MOVING SHOCK P 1.7600E+33 T 8.9958E+01 1.0855F+01 H 3.8523E+02 A 1.1098E+01 S 1.7056E+00 Z 1.4024F+00 GAME 7.5960E-01 U 3.9954E+01 SPECIES E- 4.4519E-01 A 1.1531E-01 A+ 4.3379E-01 A+ 5.7019E-03 A+++ 9.6420E-08 A++++ 8.5715E-16 AV 4.5819E-27	STANDING SHOCK REFLECTE(1.5497E+04 1.621 1.4449E+02 1.621 5.2377E+01 6.33 6.9086E+02 3.36 1.4694E+01 1.631 1.8181E+00 1.691 2.0483E+00 2.197 7.2979E-01 7.422 6.4225E+00 6.403 MOLE FRACTIONS 5.1178E-01 7.5573E-02 5.22 3.1399E-01 2.06 9.8191E-02 1.39 4.7043E-04 1.96 1.8266E-08 3.88 5.8987E-15 1.04 9.1782E-24 2.33 1.9401E-35 1.04	D SHOCK 80E+34 P 80E+34 P 80E+34 P 82E+02 I 75E+01 R 75E+02 H 31E+00 S 90E+00 Z 56E-01 G 64E+00 U SF 625E-01 E- 817E-02 A 157E-01 A+ 160E-03 A+ 160E-03 A+ 160E-03 A+ 162E-07 A+ 162E-07 A+ 162E-07 A+	MOVING SHOCK 2.0912E+03 1.0210E+02 1.0693E+01 4.5815E+02 1.2041E+01 1.7809E+09 1.9154F+00 3.3716E+01 3.3716E+01 4.7792E-01 6.9115E-02 4.2802E-01 2.4941F-02 4.802E-01 4.7783E-22 3.7666E-35 1.9783E-22	STANDING SHOCK 1.8181E+04 1.5832E+02 5.2015E+01 8.2102E+02 1.6083E+01 1.9046E+00 2.2077E+00 7.4008E-01 6.9392E+00 MOLE FRACTIONS 5.4703E-01 4.9475E-02 2.6170E-01 1.7474E-03 2.6846E-07 5.0574E-13	REFLECTED SHOCK 2.654 3E+04 1.7929E+02 6.2201E+01 9.9393E+02 1.7929E+01 1.9856E+00 2.3802E+00 7.5330E-01 6.9781E+00 5.7987E-01 3.0599E-02 2.0528E-01 1.7820E-01 6.0565E-03 4.3610E-06 6.2015E-11

	1-00E+04 N/SQ-M	, US1= 1.25E+0	4 M/SEC	P1	= 1.00E+04 N/SQ-M	, US1= 1.35E+0	4 M/SEC
			•		٠.		
	. MOVING SHOCK	CTANDING CHOCK		ı	MONTHS FIGER	STANDING SHOCK	REFLECTED SHOCK
P	2 • 26 96E+03		REFLECTED SHOCK		MOVING SHOCK	2.3442E+04	3.4425E+04
ŕ	1.07516+02	1.9784E+04 1.6570E+02	2.8904E+04	ŕ	2.6515E+03 1.1700E+02	1.81456+02	2.0757E+02
RHD			1-8827E+02	RHO			
H	1.0722E+01	5.2148E+01	6.2113E+01		1.0897E+01	5.2617E+01	6.2471E+01
	4.9706E+02	8.9102E+02	1.0793E+03	H,	5.7977E+02	1.0405E+03	1.2647E+03
A	1.2444E+01	1.6817E+31	1.8776E+01	Ą	1.3277E+01	1.8334E+01	2.0531E+01
ş	1.8176E+00	1.9471E+00	2.0312E+00	. <u>S</u>	1.8905E+00	2.0310E+00	2.1215E+00
Z	1.9689F+00	2.2896E+00	2.4717E+00	Z	2.0796E+00	2.45546+00	2.6549E+00
GAME	7.3159E-01	7.4545E-01	7.5758E-01	GANE		7.5449E-01	7.6489E-01
U	3.5131E+01	7.2315E+00	7.2960E+00	. U	3.8003E+01	7.8813E+00	8.0320E+00
		•	•				
SPECIE	S	- MULE FRACTIONS		SPEC	: IES	MOLE FRACTIONS	
£-	4.9210E-01	5.6324E-01	5.9542E-01	E	5.1914E-01	5.9273E-01	6.2334E-01
Α	5.6798E-02	3.9099E-02	2.2585E-02	Ā	4.0969E-02	2.3123E-02	1.1683E-02
A+ -	4.1012E-01	2.3515E-01	1.7844E-01	· A+	3.6074E-01	1.8381E-01	1.2923E-01
A++	4.0966E-02	1.5943E-01	1.9368E-01	Ä++	7.9055E-02		2.13236-01
A+++	1.4430E-05	3.0730E-03	9.8539E-03	Α+++	9.4785E-05	8.22715-03	2.24228-02
A++++	8.6871E-12	8.9177E-07	1.3092E-05	A+++		7.8585E-06	9.3195E-05
AV	9.71786-21			AV	3.1467E-18	1.54788-10	1.2560E-08
AVI	1.0781E-32	3.8024E-12	4.0840E-10	AVI		3.9773E-17	3.6860E-14
IIVA		1.4514E-19	1-9230E-16		5.0791E-29		
AVIII	9.6931E-49	1.9911E-29	6-8515E-25	liva .	1.6632E-43	6.3275E-26	1.32258-21
WATTE	2.0818E-68	8.9093E-42	1.4685E-35	111VA	2.3374E-61	5.1098E-37	4.3618E-31
					•		
						•	
•					*	•	
D1 =	1.00E+04 N/SQ-M	, US1= 1.30E+0	4 4/556		= 1.00E+04 N/SQ-	M. US1= 1.40E+0	14 H/CEC
	1100C104 W/36 W	7 031- 1.39540	4 H/3EC	71	- 1.002704 4730-7	11 031- 1.40640	M M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	2.4564E+03	2.1547E+04	. 3.1529E+04	₽	2.8541E+03	2.5437E+04	
T :			. D • 1 7 6 7 6 7 U 9				3.7454E+04
	1.1244E+02	1.7340E+02		T	1.2138E+02	1.8966E+02	3.7454E+04 2.1776E+02
RHO	1.1244E+02 1.0796E+01	1.7340E+02	1-9764E+02		1.2138E+02 1.0999E+01	1.8966E+02	2.1776E+02
H HO			1-9764E+02 6-2259E+01	T	1.0999E+01	1.8966E+02	2.1776E+02 6.2609E+01
	1.0796E+01 5.3760E+02	1.7340E+02 5.2380E+01 9.6421E+02	1.9764E+02 6.2259E+01 1.1692E+03	T RHO H	1.0999E+01 6.2353E+02	1.8966E+02 5.2865E+01 1.1197E+03	2.1776E+02 6.2609E+01 1.3631E+03
н	1.0796E+01 5.3760E+02 1.2856E+01	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01	T RHO H	1.0999E+01 6.2353E+02 1.3713E+01	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01
H A	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00	T RHO H A S	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00
H A S	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00	T RHO H A S Z	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 2.5370E+00	2-1776E+02 6-2609E+01 1-3631E+03 2-1446E+01 2-1666E+00 2-7472E+00
H A S Z Game	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00 7.5034E-01	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01	T RHO H A S S Z GAM	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E-01	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 2.5370E+00 7.5789E-01	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00 2.7472E+00 7.6885E-01
H A S	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00	T RHO H A S Z	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 2.5370E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00 2.7472E+00
H A S Z GAME U	1.0796 # 01 5.3760 E + 01 1.2856 E + 01 1.8542 E + 00 2.0236 E + 00 7.2638 E - 01 3.6561 E + 01	1.7340E+02 5.2380E+02 9.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00 7.5034E-01 7.5431E+00	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00	T RHO H A S Z GAM U	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E-01 3.9448E+01	1.8966E+02 5.2865E+01 1.197E+03 1.9096E+01 2.0719E+00 2.5370E+00 7.5789E-01 8.2197E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00 2.7472E+00 7.6885E+01 8.3985E+00
H A S Z Game	1.0796 # 01 5.3760 E + 01 1.2856 E + 01 1.8542 E + 00 2.0236 E + 00 7.2638 E - 01 3.6561 E + 01	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00 7.5034E-01	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00	T RHO H A S Z GAM U	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E-01 3.9448E+01	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 2.5370E+00 7.5789E-01	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00 2.7472E+00 7.6885E+01 8.3985E+00
H A S Z GAME U SPECIE	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01 3.6561E+01	1.7340E+02 5.2380E+02 19.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00 7.5034E-01 7.5431E+00	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00	T RHO A S Z GAM U SPE	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E-01 3.9448E+01	1.8966E+02 5.2865E+01 1.197E+03 1.9096E+01 2.0719E+00 7.5789E-01 8.2197E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1646E+00 2.7472E+00 7.6885E+01 8.3985E+00
H A S C GAME U SPECIE	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01 3.6561E+01	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 7.5034E-01 7.5431E+00 - MOLE FRACTIONS 5.7845E-01 3.0354E-02	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00	T RHO A S Z GAM U SPE E- A	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 E 7.2464E-01 3.9448E+01 CIES	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 7.5789E-01 8.2197E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00 2.7472E+00 7.6885E+01 8.3985E+00
H A S C GAME U SPECIE	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01 3.6561E+01 ES 5.0582E-01 4.7892E-02 3.8660E-01	1.7340E+02 5.2380E+02 19.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00 7.5034E-01 7.5431E+00	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00	T RHO A S Z GAM U SPE	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E-01 3.9448E+01	1.8966E+02 5.2865E+01 1.197E+03 1.9096E+01 2.0719E+00 7.5789E-01 8.2197E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1646E+00 2.7472E+00 7.6885E+01 8.3985E+00
H A S Z GAME U SPECIE	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01 3.6561E+01	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 7.5034E-01 7.5431E+00 - MOLE FRACTIONS 5.7845E-01 3.0354E-02	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00	T RHO A S Z GAM U SPE E- A	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 E 7.2464E-01 3.9448E+01 CIES	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 7.5789E-01 8.2197E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00 2.7472E+00 7.6885E+01 8.3985E+00
H A S C GAME U SPECIE	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01 3.6561E+01 ES 5.0582E-01 4.7892E-02 3.8660E-01	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00 7.5034E-01 7.5431E+00 - MOLE FRACTIONS 5.7845E-01 3.0354E-02 2.0908E-01	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00	T RHO A S Z GAM U SPE E- A A+	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E-01 3.9448E+01 CIES	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 7.5769E-01 8.2197E+00 MOLE FRACTIONS 6.058E-01 1.7414E-02 1.6020E-01	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1646E+00 7.6885E-01 8.3985E+00
H A S Z GAME U SPECIE	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01 3.6561E+01 5.0582E-01 4.7892E-02 3.8680E-01 5.9450E-02	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00 7.5034E-01 7.5431E+00 - MOLE FRACTIONS 5.7845E-01 3.0354E-02 2.0908E-01 1.7697E-01	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00 6.0974E-01 1.6428E-02 1.5318E-01 2.0543E-01 1.5186E-02	T RHO A S Z GAM U SPE E- A A+ A++	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E-01 3.9448E+01 CIES	1.8966E+02 5.2865E+01 1.9197E+03 1.9096E+01 2.0719E+00 7.5789E-01 8.2197E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00 2.7472E+00 7.6885E+01 8.3985E+00
H A S Z GAME U SPECIE E-A A++ S S S S S S S S S S S S S S S S S	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01 3.6561E+01 5.0582E-01 4.7892E-02 3.8680E-01 5.9450E-02 4.0756E-05 6.2145E-11	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00 7.5034E-01 7.5431E+00 - MOLE FRACTIONS 5.7845E-01 3.0354E-02 2.0908E-01 1.7697E-01 5.1424E-03 2.7419E-06	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00 6.0974E-01 1.6428E-02 1.5318E-01 2.0543E-01 1.5186E-02 3.6046E-05	T RHO A S Z GAM U SPE E- A A++ A++	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E+01 3.9448E+01 CIES 5.3222E-01 3.5164E-02 3.3321E-01 9.9214E-02 1.9452E-04 + 1.297ZE-09	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 7.5769E-01 8.2197E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00 2.7472E+00 7.6885E+01 8.3985E+00 6.3600E+01 8.1965E+03 1.0751E+01 2.1662E+01 3.1454E+02 2.2110E+04
H A S Z GAME U SPECIE E-A A+++++	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01 3.6561E+01 5.0582E-01 4.7892E-02 3.8680E-01 5.9450E-02 4.0756E-05	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00 7.5034E-01 7.5431E+00 - MOLE FRACTIONS 5.7845E-01 3.0354E-02 2.0908E-01 1.7697E-01 5.1424E-03 2.7419E-06 2.5544E-11	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00 6.0974E-01 1.6428E-02 1.5313E+01 2.0543E-01 1.5186E-02 3.6046E-05 2.3674E-09	T RHO H A S Z GAM U SPE E - A A+++ A+++ A+++ A+++ A+++ A+++ A+	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E-01 3.9448E+01 CIES 5.3222E-01 3.5164E-02 3.3321E-01 9.9214E-02 1.9452E-04 1.2972E-09 3.1257E-17	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 7.5789E-01 8.2197E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00 2.7472E+00 7.6885E+01 8.3985E+00 3.400E+01 8.1965E+03 1.0751E+01 2.1662E+01 3.1454E+02 2.2110E+04 5.8455E+08
H A S Z GAME U SPECIE E-A A+++++++++++++++++++++++++++++++++	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01 3.6561E+01 ES	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 7.5034E+01 7.5431E+00 - MOLE FRACTIONS 5.7845E-01 3.0354E-02 2.0908E-01 1.7697E-01 5.1424E-03 2.7419E-06 2.5544E-11 2.5805E-18	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00 6.0974E-01 1.6428E-02 1.5318E-01 2.0543E-01 1.5186E-02 3.6046E-05 2.3674E-09 2.8263E-15	T RHO H A S Z GAM U SPE E - A A + A + A + A + A + A + A + A + A +	1.099E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E-01 3.9448E+01 CIES 5.3222E-01 3.5164E+02 3.3321E-01 9.9214E-02 1.9452E-04 4.2972E-09 3.1257E-17 1.4971E-27	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 7.5789E-01 8.2197E+00 MOLE FRACTIONS 6.0584E-01 1.7414E-02 1.6020E-01 2.0403E-01 1.2497E-02 2.0627E-05 8.1989E-10 5.0620E-16	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+00 2.1446E+00 2.7472E+00 7.6885E+00 8.3985E+00 3.160E+01 8.1965E+03 1.0751E+01 2.1662E+01 3.1454E+02 2.2110E+04 5.8455E+08 3.9879E+13
H A S S Z GAME U SPECIE E-A A++++-A+++-AV AVI	1.0796E+01 5.3760E+02 1.2856E+01 1.8542E+00 2.0236E+00 7.2638E-01 3.6561E+01 5.0582E-01 4.7892E-02 3.8680E-01 5.9450E-02 4.0756E-05 6.2145E-11 2.2699E-19	1.7340E+02 5.2380E+01 9.6421E+02 1.7568E+01 1.9891E+00 2.3722E+00 7.5034E-01 7.5431E+00 - MOLE FRACTIONS 5.7845E-01 3.0354E-02 2.0908E-01 1.7697E-01 5.1424E-03 2.7419E-06 2.5544E-11	1.9764E+02 6.2259E+01 1.1692E+03 1.9635E+01 2.0760E+00 2.5624E+00 7.6126E-01 7.6313E+00 6.0974E-01 1.6428E-02 1.5313E+01 2.0543E-01 1.5186E-02 3.6046E-05 2.3674E-09	T RHO H A S Z GAM U SPE E - A A+++ A+++ A+++ A+++ A+++ A+++ A+	1.0999E+01 6.2353E+02 1.3713E+01 1.9269E+00 2.1378E+00 7.2464E-01 3.9448E+01 CIES 5.3222E-01 3.5164E-02 3.3321E-01 9.9214E-02 1.9452E-04 1.2972E-09 3.1257E-17 1.4971E-27 2.1017E-41	1.8966E+02 5.2865E+01 1.1197E+03 1.9096E+01 2.0719E+00 7.5789E-01 8.2197E+00	2.1776E+02 6.2609E+01 1.3631E+03 2.1446E+01 2.1666E+00 2.7472E+00 7.6885E+01 8.3985E+00 3.400E+01 8.1965E+03 1.0751E+01 2.1662E+01 3.1454E+02 2.2110E+04 5.8455E+08

P1 =	1.00E+04 N/SQ-M	US1= 1.45E+0	M/SEC	P1 = 1	1.00E+04 N/SQ-M	. US1= 1.55E+0	04 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	3.0640E+03	2.7491E+04	4.0597E+04	P	3.5057E+03	3.1784E+04	4.7238E+04
Ť	1.2569E+02	1.9812E+02	2.2797E+02	Ť	1.3426E+02	2.1555E+02	2.49295+02
RHO	1.1090E+01	5.2981E+01	6.2767E+01	RHO	1.1243E+01	5.2999E+01	6.2767E+01
н	6.6888E+02	1.2017E+03	1.4654E+03	н	7.6435E+02	1.37415+03	1.6818E+03
Ā	1.4165E+01	1.9870E+01	2.2364E+01	Ä	1.5106E+01	2.1451E+01	2.4285E+01
ŝ	1.9636E+00	2.1129E+00	2.2101E+00	ŝ	2.0365E+00	2.1944E+00	2.2966E+00
ž	2.1982E+00	2.6191E+00	2.8371E+00	ž	2.3225E+00	2.7823E+00	3.01899+00
GAME	7.2621E-01	7.6090E-01	7.7330E-01	GAME	7.3185E-01	7.6725E-01	7.8366E-01
. n	4.0889E+01	8.5682E+00	8.7736E+00	U	4.3767E+01	9.286CE+00	9.5582E+00
•	***********		37.11302.133	• .		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
SPECI	ES	- MOLE FRACTIONS	···:	SPEC IES	s	- MOLE FRACTIONS	
		•	•			•	
-	5.45C8E-01	6.1818E-01	6.4753E-01	E -	5.6943E-01	6.4058E-01	6.6876E-01
A	3.0077E-02	· 1.2899E-02	5.7400E-03	A	2.1572E-02	.6.8476E-03	2.70966-03
A+ .	3.0498£-01	1.3797E-01	8.3680E-02 ·	A +	2.4965E-01	9.9123E-02	5.7779E-02
4++	1.1950E-01	2.1269E-01	2.1577E-01	A++	1.58268-01	2.1914E-01	2.0311E-01
4+++	3.6668E-04	1.8212E-02	4.1805E-02	A+++	1.0846E-03	. 3.4066E-02	6.5820E-02.
A++++	4.5991E-09	5.05976-05	4.7570E-04	4+++	4.2475E-08	2:4557E-04	1.8200E-03
AV	2.4904E-16	3.9210E-09	2.3331E-07	AV.	9.8709E-15	. 6.4551E-08	2.7859E-06
AVI	3.2329E-26	5.5743E-15	3.4520E-12	AVI	7.7427E-24	4.2257E-13	1.7144E-10
IIVA	1.7223E-39	7.7615E-23	9.3240E-19	AVII	4.51568-36	4.0019E-20	2.6907E-16
IIIVA	6.2560E-56	8.1706E-33	3.3530E-27	IIIVA	2.70105-51	4.0597E-29	7.7499E-24
P1 =	1.00E+04 N/SQ-M	, US1= 1.59E+0	04 M/SEC	P1 = 1	1.00E+04 N/SQ-M	. US1= 1.60E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHUCK	STANDING SHOCK	REFLECTED SHOCK
P	3.2814E+03	2.9632E+04	4.3880F+04	P	3.73708+03	3.3922E+04	5.0646E+04
T	1.2994E+02	2.0674E+02	2.3868E+02	Ť	1.3670E+02	2.2430E+J2	2.6336F+02
RHO	1.1177E+01	5.3077E+01	6.2753E+01	яно	1.1288E+01	5.28326+01	6.2526E+01
н .	7.1583F+02	1.2867E+03	1.57155+03	н .	8.1444E+02	1.4640E+03	1.79575+03
A	1.4627E+01	2.3651E+31	2.3330E+01	A ,	1.5603E+U1	2.2249E+01	2.5278E+01
Š	1.9999E+00	2.1535E+00	2.2545E+00	š	2.0732E+00	2.2342E+00	2.3397E+00
ž	2.2595E+00	2.7003E+00	2.9297E+00	ž	2.38686+00	2.8625E+00	3.1111E+00
GAME	7.2870E-01	7.6391E-01	7.78418-01	GAME -	7.3540E-01	7.70998-01	7.8883E-01
Ü	4.2332E+01	8.9161E+00	9.1520E+00	U	4.5198E+01	9.7013E+00	9.4670E+00
SPECI	ES	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	5.5742E-UI	6 2047C-01	£ 69476-A1	E-	6 9104E-01	4 6045E-01	4 73575-01
Α .	2.5616E-02	6.2967E-01 9.4625E-03	6.5867E-01 3.9343E-03	A .	5.8104E-01 1.7916E-J2	6.5065E-01 4.9447E-03	6.7857E-01 1.8276E-03
A+ ·	2.7715E-01	1.17678-01	7.1754E-02	A+ ·	2.2282E-01	8. 2931E-02	1 - 0 £ 10 C - 0 3
A++				A++			4.5639E-02
	1.3417E-01	2.17698-01	2-1100E-01	A+++	1.7646E-01	2.1718E-01	1.9223E-01 7.8454E-02
A+++	6.4444E-04	2.5385E-02		A+++	1.7060E-J3	4.3805E-02	
A++++ -			5.3674E-02		1 10175 67		
4 14	1.4464E-08	1.1506E-04	9.7198E-04	A++++	1.1813E-07	4.8462E-04	3.2674E-03
AV .	1.4464E-08 1.6520E-15	1.1506E-04 1.6701E-08	9.7198E-04 8.6467E-07	. AV	5.4745E-14	4.8462E-04 2.2034E-07	3.2674E-03 8.4502E-06
AVI	1.4464E-08 1.6520E-15 5.3824E-25	1.1506E-04 1.6701E-08 5.2028E-14	9.7198E-04 8.6467E-07 2.6967E-11	- VA I VA	5.4745E-14 1.0050E-22	4.8462E-04 2.2034E-07 2.8616E-12	3.2674E-03 8.4502E-06 1.0019E-09
	1.4464E-08 1.6520E-15	1.1506E-04 1.6701E-08	9.7198E-04 8.6467E-07	. AV	5.4745E-14	4.8462E-04 2.2034E-07	3.2674E-03 8.4502E-06

.P1 #	1.00E+04 N/SQ-M	, US1= 1.65E+0	4 M/SEC	P1 = 1	.00E+04 N/SQ-M	. US1= 1.75E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
۰ ۵	3.97516+03	3.6115E+04.	5.4096E+04	p :	4.4717E+03	4.0516E+04	6-1132E+04
Ť.	1.4328E+02	2.3321E+02	2.7168E+02	Ť	1.5296E+02	2.5155E+02	2.9463E+02
RHO	1.1315E+01	5.2625E+01	6.2137E+01	RHD	1.1328E+01	5.1867E+01	6.1142E+01
H.	8.6611E+02	1.5569E+03	1.9134E+03	Н	9.7416E+02	1.7501E+03	2.1597E+03
A .	1.6113E+01	2.3065E+01	2.6280E+01	Ä	1.7156E+01	2.4749E+01	2.8256E+01
S	2.1098E+00	2.2736E+00	2.3828E+00	S .	2.1821E+00	2.3524E+00	2.4684E+00
Z	2.4518E+00	2.9427E+00	3.2045E+00	2	2.5807E+00	3.1053E+00	3.3936E+00
GAME	7.3909E-01	7.7518E-01	7.9331E-01	GAME	7.4558E-01	7.8413E-01	7.9850E-01
U	4.6621E+01	1.0067E+01	1.0385E+01	U	4.9451E+01	1.0845E+01	1.1237E+01
	·		No. of the second			•	•
SPECIE	5	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	5.9213E-01	6.6018E-01	6.8794E-01	E-	6-1250E-01	6.7797E-01	7.0532E-01
Ā, ,	1.4655E-02	3.5433E-03	1.2199E-03	Ā	9.3580E-03	1.7649E-03	5.4033E-04
A+	1.9710E-01	6.8691E-02	3.5567E-02	A+	1.5029E-01	4.5526E-02	2.1069E-02
A++	1.9332E-01	2.1219E-01	1.7906E-01	A++	2.2134E-01	1.9451E-01	1.4890E-01
Att	2.7961E-03	5.4494E-02	9-0628E-02	A+++	6.5088E-03	7.7488E-02	1.1035E-01
A++++	3.1553E-07	9.0422E-04	5.5643E-03	A+++	2.0188E-06	2.7343E-03	1.3673E-02
AV:	2.8567E-13	6.9038E-07	2.3653E-05	AV	6.6612E-12	5.4720E-06	1-4290E-04
AVÍ	1.1991E-21	1.71436-11	5.2146E-09	AVI	1.3820E-19	4.5264E-10	9.6615E-08
IIVA	6.4162E-33	8.4937E-18	3.8985E-14	I IVA	5.9835E-30	9.8539E-16	2.8188E-12
AVĮII.	5-1379E-47	. 6.0970E-26	7.0732E-21	- IIIVA	5.5647E-43	4.0596E-23	2.5313E-18
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			•		•		
						:	
				P1 = 1	.00E+04 N/SQ-M	, US1= 1.80E+0	I4 M/SEC
.P1 #	1.00E+04 N/SQ-M	. US1= 1.70E+0	14 H/2EC				
.P1 =	1.00E+04 N/SQ-M	• US1= 1.70E+0	94 H/SEC				
P1 =	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		HOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 4.2199E+03	STANDING SHOCK 3.8294E+04	REFLECTED SHOCK 5.7585E+04	P	MOVING SHOCK 4.7249E+03	STANDING SHOCK	,
P T	MOVING SHOCK 4.2199E+03 1.4806E+02	STANDING SHOCK 3.8294E+04 2.4233E+02	REFLECTED SHOCK 5-7585E+04 2-8331E+02	P T	MOVING SHOCK 4.7249E+03 1.5820E+02	STANDING SHOCK 4-2667E+04 2-6078E+02	REFLECTED SHOCK 6.4589E+04 3.0568E+02
P T RHD	MOVING SHOCK 4.2199E+03 1.4806E+02 1.1324E+01	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01	P T RHO	MOVING SHOCK 4.7249E+03 1.5820E+02 1.1300E+01	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01	REFLECTED SHOCK 6-4589E+04 3-0568E+02 6-0604E+01
P T	MOVING SHOCK 4.2199E+03 1.4806E+02 1.1324E+01 9.1935E+02	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03	P T RHO H	MOVING SHOCK 4.7249E+03 1.5820E+02 1.1300E+01	STANDING SHOCK 4-2667E+04 2-6078E+02 53-5-1351E+01 1-8504E+03	REFLECTED SHOCK 6-4589E+04 3-0568E+02 6-0604E+01 2-2875E+03
P T RHD	MOVING SHOCK 4.2199E+03 1.4806E+02 1.1324E+01 9.1935E+02 1.6635E+01	STANDING SHOCK 3-8294E+04 2-4233E+02 5-2254E+01 1-6521E+03 2-3904E+01	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01	P T RHO H	MOVING SHOCK 4.7249E+03 1.5820E+02 1.1300E+01 1.0305E+03 1.7693E+01	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01	REFLECTED SHOCK 6.4589E+04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01
P T RHD H A S	MOVING SHOCK 4.2199E+03 1.4806E+02 1.1324E+01 9.1935E+02 1.6635E+01 2.1463E+00	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00	REFLECTED SHOCK 5.7585+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00	P T RHO H A S	MOVING SHOCK 4-7249E+03 1-5820E+02 1-1300E+01 1-7693E+01 2-2190E+00	STANDING SHOCK 4-2667E+04 2-6078E+02 3-5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00	REFLECTED SHOCK 6.4589E 04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00
P T RHD H A S	MOVING SHOCK 4.2199E+03 1.4806E+02 1.132E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00	STANDING SHOCK 3-8294E+04 2-4233E+02 5-2254E+01 1-6521E+03 2-3904E+01 2-3134E+00 3-0242E+00	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00	P T RHO H A S Z	MOVING SHOCK 4.7249E+03 1.5820E+02 1.1300E+01 1.0305E+03 1.7693E+01 2.2190E+00 2.6459E+00	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00	REFLECTED SHOCK 6.4589E+04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00
P T RHD H A S	MOVING SHOCK 4-2199E+03 1-4806E+02 1-132-E+01 9-1935E+02 1-6635E+01 2-1463E+00 2-5169E+00 7-4260E-01	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01	P T RHO H A S Z GAME	MOVING SHOCK 4-72-98-03 1-58-20E+02 1-13-00E+01 1-76-93E+01 2-21-90E+00 2-64-59E+00 7-47-86E-01	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00 7-8814E-01	REFLECTED SHOCK 6.4589E 04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.486E+00 7.9917E-01
P T RHD H A S	MOVING SHOCK 4.2199E+03 1.4806E+02 1.132E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00	STANDING SHOCK 3-8294E+04 2-4233E+02 5-2254E+01 1-6521E+03 2-3904E+01 2-3134E+00 3-0242E+00	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00	P T RHO H A S Z	MOVING SHOCK 4.7249E+03 1.5820E+02 1.1300E+01 1.0305E+03 1.7693E+01 2.2190E+00 2.6459E+00	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00	REFLECTED SHOCK 6.4589E+04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00
P T RHD H A S Z GAME U	MOVING SHOCK 4.2199E+03 1.4806E+02 1.1324E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E-01 4.8038E+01	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01	P T RHO H A S Z GAME U	MOVING SHOCK 4-7249E+03 1-5820E+02 1-1300E+01 1-0305E+03 1-7693E+01 2-2190E+00 2-6459E+00 7-4786E-01 5-0853E+01	STANDING SHOCK 4.2667E+04 2.6078E+02 5.1351E+01 1.8504E+03 2.5590E+01 2.3910E+00 3.1861E+00 7.8814E-01 1.1240E+01	REFLECTED SHOCK 6.4589E 04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00 7.9917E-01 1.1650E+01
P T RHD H A S	MOVING SHOCK 4.2199E+03 1.4806E+02 1.1324E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E-01 4.8038E+01	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01	P T RHO H A S Z GAME	MOVING SHOCK 4-7249E+03 1-5820E+02 1-1300E+01 1-0305E+03 1-7693E+01 2-2190E+00 2-6459E+00 7-4786E-01 5-0853E+01	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00 7-8814E-01	REFLECTED SHOCK 6.4589E 04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00 7.9917E-01 1.1650E+01
PT RHD H A S Z GAME U SPECIE	MOVING SHOCK 4.2199E+03 1.4806E+02 1.132vE+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E-01 4.8038E+01	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4-7249E+03 1-5820E+02 1-1300E+01 1-0305E+03 1-7693E+01 2-2190E+00 2-6459E+01 7-4786E-01 5-0853E+01	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00 7-8814E-01 1-1240E+01 - MOLE FRACTIONS 6-8614E-01	REFLECTED SHOCK 6.4589E+02 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00 7.9917E-01 1.1650E+01
P T RHD H A S Z GAME U SPECIE	MOVING SHOCK 4.2199E+03 1.4806E+02 1.132E+01 9.1935E+02 1.6635E+01 2.1463E+00 7.4260E-01 4.8038E+01	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01 - MOLE FRACTIONS 6.6934E-01 2.5059E-03	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4-7249E+03 1-820E+02 1-1300E+01 1-0305E+03 1-7693E+01 2-2190E+00 2-6459E+00 7-4786E-01 5-0853E+01 	STANDING SHOCK 4-2667E+04 2-0078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00 7-8814E-01 1-1240E+01 - MOLE FRACTIONS 6-8614E-01 1-2381E-03	REFLECTED SHOCK 6.4589E+04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00 7.9917E-01 1.1650E+01
PT RHD H A S Z GAME U SPECIE	MOVING SHOCK 4.2199E+03 1.4806E+02 1.132+E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E+01 4.8038E+01 6.0268E+01 1.1786E+02 1.7270E+01	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01 - MOLE FRACTIONS 6.6934E-01 2.5059E-03 5.6153E-02	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01 6.9702E-01 8.0420E-04 2.7306E-02	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 4-72-9E+03 1-58-20E+02 1-13-00E+01 1-76-93E+01 2-21-90E+00 2-64-59E+00 7-47-86E-01 5-0853E+01 6-2206E-01 7-24-61E-03 1-2903E-01	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00 7-8814E-01 1-1240E+01 - MOLE FRACTIONS 6-8614E-01 1-2381E-03 3-6627E-02	REFLECTED SHOCK 6.4589E04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.486E+00 7.9917E-01 1.1650E+01 7.1317E-01 3.6660E-04 1.6259E-02
PT RHD H A S Z GAME U SPECIE	MOVING SHOCK 4.2199E+03 1.4806E+02 1.1329E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E-01 4.8038E+01 S	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4-7249E+03 1-5820E+02 1-1300E+01 1-0305E+03 1-7639E+01 2-2190E+00 2-6459E+00 7-4786E-01 5-0853E+01 	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00 7-8814E-01 1-1240E+01 - MOLE FRACTIONS 6-8614E-01 1-2381E-03 3-6627E-02 1-8291E-01	REFLECTED SHOCK 6.4589E+04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00 7.9917E-01 1.1650E+01 7.1317E-01 3.6660E-04 1.6259E-02 1.3383E-01
PT RHO H A S Z GAME U SPECIE	MOVING SHOCK 4.2199E+03 1.4806E+02 1.132-E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E-01 4.8038E+01 6.0268E-01 1.1786E-02 1.7270E-01 2.0850E-01 4.3264E-03	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01 - MOLE FRACTIONS 6.6934E-01 2.5059E-03 5.6153E-02 2.0445E-01 6.5942E-01	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01 6.9702E-01 8.0420E-04 2.7306E-02 1.0406E-01 1.0171E-01	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 4-72-9E+03 1-58-20E+02 1-13-00E+01 1-76-93E+01 2-21-90E+00 2-64-59E+00 7-47-86E-01 5-0853E+01 	STANDING SHOCK	REFLECTED SHDCK 6.4589E+04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00 7.9917E-01 1.1650E+01 7.1317E-01 3.6660E-04 1.6259E-02 1.3383E-01 1.1653E-01
PT RHO H A S Z GAME U SPECIE	MOVING SHOCK 4.2199E+03 1.4806E+02 1.132E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E-01 4.8038E+01 1.1786E-02 1.7770E-01 2.0850E-01 4.3264E-03 3.1584E-03	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01 - MOLE FRACTIONS 6.6934E-01 2.5059E-03 5.6153E-02 2.0445E-01 6.5942E-02 1.6132E-02	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01 6.9702E-01 8.0420E-04 2.7306E-02 1.6406E-01 1.0171E-01 9.0436E-03	P T RHO H A S Z GAME U	MOVING SHOCK 4-72-9E+03 1-58-20E+02 1-13-00E+01 1-03-05E+03 1-76-93-E+01 2-21-90E+00 2-64-59E+00 7-47-86E-01 5-08-53-E+01 6-22-06E-01 7-2-61-E-03 1-29-03E-01 2-31-97E-01 9-68-99E-03 4-96-7E-06	STANDING SHOCK 4.2667E-04 2.6078E+02 5.1351E+01 1.8504E+03 2.5590E+01 2.3910E+00 3.1861E+00 7.8814E-01 1.1240E+01 - MOLE FRACTIONS 6.8614E-01 1.2381E-03 3.6627E-02 1.8291E-01 8.8655E-02 4.4143E-03	REFLECTED SHOCK 6.4589E+04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.486E+00 7.9917E-01 1.1650E+01 7.1317E-01 3.6660E+04 1.6259E+02 1.3383E+01 1.1653E+01 1.9538E+02
PT RHD H A S Z GAME U SPECIE E-A A+++++++++++++++++++++++++++++++++	MOVING SHOCK 4.2199E+03 1.4806E+02 1.1329E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E-01 4.8038E+01 S	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01 - MOLE FRACTIONS 6.6934E-01 2.5059E-03 5.6153E-02 2.0445E-01 4.5942E-02 1.6132E-03 2.0222E-06	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01 6.9702E-01 8.0420E-04 2.7306E-02 1.6406E-01 1.0171E-01 9.0436E-03 6.1753E-05	P T RHO H A S Z GAME U SPECIES E-A A+++ A+++ A+++ A+++ A+++ A+++ A+++	MOVING SHOCK 4.7249E+03 1.5820E+02 1.1300E+01 1.0305E+03 1.7639E+01 2.2190E+00 2.6459E+00 7.4786E-01 5.0853E+01 	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00 7-8814E-01 1-1240E+01 - MOLE FRACTIONS 6-8614E-01 1-2381E-03 3-6627E-02 1-8291E-01 8-8655E-02 4-4143E-03 1-3707E-05	REFLECTED SHOCK 6.4589E+04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00 7.9917E-01 1.1650E+01 7.1317E-01 3.6660E-04 1.6259E-02 1.3383E-01 1.1653E-01 1.9538E-02 3.0108E-04
PT RHD H A S Z GAME U SPECIE E-A A+++++++++++++++++++++++++++++++++	MOVING SHOCK 4.2199E+03 1.4806E+02 1.1324E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E-01 4.8038E+01 SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01 - MOLE FRACTIONS 6.6934E-01 2.5059E-03 5.6153E-02 2.0445E-01 6.5942E-02 1.6132E-03 2.0222E-06 9.3272E-11	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01 6.9702E-01 8.0420E-04 2.7306E-02 1.6406E-01 1.0171E-01 9.0436E-03 6.1753E-05 2.4574E-08	P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A+++ A+++ AV AVI	MOVING SHOCK 4-72-98-03 1-58-20E+03 1-58-20E+03 1-76-93E+01 2-21-90E+00 2-64-59E+01 5-085-3E+01 6-2206E-01 7-24-61E-03 1-2903E-01 2-31-97E-01 9-68-99E-03 4-966-7E-06 3-1120E-11 1-426-11	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00 7-8814E-01 1-1240E+01 - MOLE FRACTIONS 6-8614E-01 1-2381E-03 3-6627E-02 1-8291E-01 8-8655E-02 4-4143E-03 1-3707E-05 1-9608E-09	REFLECTED SHOCK 6.4589E+04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00 7.9917E-01 1.1650E+01
PT RHD H A S Z GAME U SPECIE E-A A A A A A A A A A A A A A A A A A	MOVING SHOCK 4.2199E+03 1.4806E+02 1.132eE+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E-01 4.8038E+01 5 6.0268E-01 1.1786E-02 1.7720E-01 2.0850E-01 4.3264E-03 3.1534E-07 1.4249E-12 1.3468E-20 2.0904E-31	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01 - MOLE FRACTIONS 6.6934E-01 2.5059E-03 5.6153E-02 2.0445E-01 6.5942E-02 1.6132E-03 2.022E-06 9.3272E-11 9.9126E-17	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01 6.9702E-01 8.0420E-04 2.7306E-02 1.6406E-01 1.0171E-01 9.0436E-03 6.1753E-05 2.4574E-08 3.7681E-13	P T RHO H A S Z Z GAME U	MOVING SHOCK 4-7249E+03 1-5820E+02 1-1300E+01 1-0305E+03 1-7693E+01 2-2190E+00 2-6459E+00 7-4786E-01 5-0853E+01 6-2206E-01 7-2461E-03 1-2903E-01 2-3197E-01 9-6899E-03 4-9667E-06 3-1120E-11 1-4264E-18 1-7295E-28	STANDING SHOCK 4.2667E+04 2.6078E+02 5.1351E+01 1.8504E+03 2.5590E+01 2.3910E+00 3.1861E+00 7.8814E-01 1.1240E+01 - MOLE FRACTIONS 6.8614E-01 1.2381E-03 3.6627E-02 1.8291E-01 8.8655E-02 4.4143E-03 1.3707E-05 1.9608E-09 8.3390E-15	REFLECTED SHOCK 6.4589E 04 3.0568E+02 6.0604E+01 2.2875E+03 2.9184E+01 2.5097E+00 3.4864E+00 7.9917E-01 1.1650E+01 7.1317E-01 3.6660E-04 1.6259E-02 1.3383E-01 1.1653E-01 1.9538E-02 3.0108E-04 3.2979E-07
PT RHD H A S Z GAME U SPECIE E-A A+++++++++++++++++++++++++++++++++	MOVING SHOCK 4.2199E+03 1.4806E+02 1.1324E+01 9.1935E+02 1.6635E+01 2.1463E+00 2.5169E+00 7.4260E-01 4.8038E+01 SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	STANDING SHOCK 3.8294E+04 2.4233E+02 5.2254E+01 1.6521E+03 2.3904E+01 2.3134E+00 3.0242E+00 7.7967E-01 1.0456E+01 - MOLE FRACTIONS 6.6934E-01 2.5059E-03 5.6153E-02 2.0445E-01 6.5942E-02 1.6132E-03 2.0222E-06 9.3272E-11	REFLECTED SHOCK 5.7585E+04 2.8331E+02 6.1582E+01 2.0351E+03 2.7293E+01 2.4266E+00 3.3006E+00 7.9662E-01 1.0821E+01 6.9702E-01 8.0420E-04 2.7306E-02 1.6406E-01 1.0171E-01 9.0436E-03 6.1753E-05 2.4574E-08	P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A+++ A+++ AV AVI	MOVING SHOCK 4-72-98-03 1-58-20E+03 1-58-20E+03 1-76-93E+01 2-21-90E+00 2-64-59E+01 5-085-3E+01 6-2206E-01 7-24-61E-03 1-2903E-01 2-31-97E-01 9-68-99E-03 4-966-7E-06 3-1120E-11 1-426-11	STANDING SHOCK 4-2667E+04 2-6078E+02 5-1351E+01 1-8504E+03 2-5590E+01 2-3910E+00 3-1861E+00 7-8814E-01 1-1240E+01 - MOLE FRACTIONS 6-8614E-01 1-2381E-03 3-6627E-02 1-8291E-01 8-8655E-02 4-4143E-03 1-3707E-05 1-9608E-09	REFLECTED SHDCK 6.4589E 04 3.0568E +02 6.0604E +01 2.2875E +03 2.9184E +01 2.5097E +00 3.4864E +00 7.9917E -01 1.1650E +01 7.1317E -01 3.6660E -04 1.6259E -02 1.3383E -01 1.9538E -02 3.0108E -04 3.2979E -07

					-		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			STANDING SHOCK	
Ρ.	4.7899E+01	8.4638E+01	2.6399E+02	P	6.9070E+01	1.2786E+02	3.7991E+02
T	1.2892F+01 .	1.6278E+01	2.9107E+01	T	1.8181E+01	2.3403E+01	3.8184E+01
RHO	3.7155E+00	.5.1997E+00	9.0636E+00	RHO	3.7991 E+00	5.4632E+00	9.8579E+00
н.	1.2892E+01	1.6278E+01	2.9288E+C1	н	1.81816+01	2.3416E+01	4.0862E+01
A .	3.59055+00	4.0345E+00	5.3017E+00	À	4.2635E+00	4.8256E+00	5-6717E+00
ŝ	1.1246E+00	1.1253E+00	1.1417E+00	S	1.1489E+00	1.1498E+00	1.1660E+00
ž	1.0000E+00"	1.0000E+00	1.0007E+00	ž	1.000CE+00	1.0001E+00	1.0093E+00
GAME .	1.0000E+00	9.9997E-01	9-6503E-01	GAME	9.9980E-01	9.94988-01	8.3470E-01
U .	4.5391E+80	3.2320E+00	3.1488E+00	U	5.4901F+00	3.7988E+00	3.451 95+00
U	4.23416400	3.23206400	3.14005.400	. •	2.4901:400	3.17002400	3.431 70400
					_		
SPECIES		- MOLE FRACTIONS		SPECIE	5	- MOLE, FRACTIONS	
-	1.0421E-09	1.46 00E-07	6.5924E-04	E-	1.3239E-06	5.6222E-05	9.21108-03
	- 1.0000E+00	1.0000E+00	9-9868E-01	A	1.00002E+00	9.9989E-01	9.8158E-01
	1.0421E-09	1.46 COE-07	6.5924E-04	A+	1.32398-06	5.6222E-05	9.2110E-03
**	1.8126E-34	9.7663E-28	1.5096E-14	A++	3 - 7304F-24	2.21535-10	€3:1.3466E-10
***	4.6496E-75	1.0421E-59	2.5391F-33	A+++	1.3498E-53	≤>. 7.1412E-42	9.1870E-25
****	0.	0.	1.05325-62	A++++	0.	6.9720E-78	8.9967E-47
\ V			1.77326-02	AV			
	0.	0.	0.	ĀVI	0.	0.	4.6312E-77
VI ·	0.	0.			0.	0.	0.
VII	0.	0.	0.	IIVA	.0.	0.	0.
1114	0.	. 0.	0.	IJIVA	o.	o• _	0• .
				€22.	* * * * * * * * * * * * * * * * * * *		
				*			
P1 = 2	.00E+04 N/SQ-M	, US1= 2.20E+0	D3 M/SEC	P1 = ;	2.00E+04 N/Sy-M	, · US1= 2.60F+0	3 M/SEC
P1 = 2	.00E+04 N/SQ-M	, US1= 2.20E+0	D3 M/SEC	P1 = ;	2.00E+04 N/Su-M		- · · · · · · · · · · · · · · · · · · ·
P1 = 2				P1 = :			- · · · · · · · · · · · · · · · · · · ·
12.	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHUCK 5.8003E+01	STANDING SHOCK 110488E+02	REFLECTED SHOCK	P	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P T	MDVING SHUCK 5.8003E+01 1.5416E+01	STANDING SHOCK 110488E+02 1.9658E+01	REFLECTED SHOCK 3.20.00 002.50 3.4012E+01	P T	MDVING SHDCK 8-10825+01 2-11805+01	STANDING SHOCK 1.5335E+02 2.7418E+01	**************************************
P T RHO	MDVING SHUCK 5-8003E+01 1-5416E+01 3-7624E+00	STANDING SHOCK 1.0488E+02 1.9658E+01 5.3350E+00	REFLECTED SHOCK 3. 20 8 to 20 21 3 3. 401 2 E + 01 9. 391 8 E + 00	P T RHD	MOVING SHOCK 8-10825+01 2-11805+01 3-82825+00	STANDING SHOCK 1.5335E+02 2.7418E+01 5.5908E+00	** REFLECTED SHOCK 4.4034E+02 4.1516E+01 1.0417E+01
P T RHO	MOVING SHUCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01	STANDING SHOCK 1.0488E+02 1.9658E+01 5.3350E+00 1.9659E+01	REFLECTED SHOCK 3.200 02 502. 3.4012E+01 9.3918E+00 3.4937E+01	р Т СНЯ Н	MDVING SHGCK 8-10825+01 2-11805+01 3-82825+00 2-11845+01	STANDING SHOCK 1.5335E+02 2.7418E+01 5.5908E+00 2.7532E+01	**************************************
P T RHO H	MDVING SHDCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00	STANDING SHOCK 1.0488E+02 1.9658E+01 5.3350E+00 1.9659E+01 4.4326E+00	REFLECTED SHOCK 3.26 to 102.5 3.4012E-01 9.3918E+00 3.4937E+01 5.5386F+00	Р Т Н Н А	MOVING SHOCK 8-10825+01 2-11805+01 3-82825+00 2-11845+01 4-59825+00	STANDING SHOCK 1.5335E+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00	**REFLECTED SHOCK 4.40346+02 4.1516E+01 1.04176+01 4.6874E+01 5.7920E+00
P T RHO H A	MOVING SHUCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00 1.1372E+00	STANDING SHOCK 1.0488E+02 1.9658E+01 5.3350E+00 1.9659E+01 4.4326E+00 1.1380E+00	REFLECTED SHOCK 3.265 Bg 502 3.4012 F 01 9.3918E+00 3.4937E+01 5.5386F+00 1.1542E+00	р Т СНЯ Н	MOVING SHOCK 8-10825+01 2-11805+01 3-82825+00 2-11845+01 4-59825+00 1-15995+00	STANDING SHOCK 1.5335E+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.16C8E+00	REFLECTED SHOCK 4.4034E+02 4.1516E+01 1.0417E+01 4.6874E+01 5.7920E+00
P T RHO H	MOVING SHOCK 5-8003E+01 1-5416E+01 3-7624E+00 1-5416F+01 3-9263E+00 1-1372E+00 1-000E+00	STANDING SHOCK 1.0488E+02 1.4658E+01 5.3350E+00 1.9659E+01 4.4326E+00 1.1380E+00 1.0000E+00	REFLECTED SHOCK 3.20-08-502. 3.40128-01 9.39188-00 3.49378-01 5.5386F+00 1.15428-00 1.00338-00	P T RHJ H A S Z	MOVING SHOCK 8-10825+01 2-11805+01 3-82825+00 2-11845+01 4-59825+00	STANDING SHOCK 1.5335E+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00	**REFLECTED SHOCK 4.40346+02 4.1516E+01 1.04176+01 4.6874E+01 5.7920E+00
P T RHO H A	MOVING SHUCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00 1.1372E+00	STANDING SHOCK 1.0488E+02 1.9658E+01 5.3350E+00 1.9659E+01 4.4326E+00 1.1380E+00	REFLECTED SHOCK 3.265 Bg 502 3.4012 F 01 9.3918E+00 3.4937E+01 5.5386F+00 1.1542E+00	Р Т Н Н А	MOVING SHOCK 8-10825+01 2-11805+01 3-82825+00 2-11845+01 4-59825+00 1-15995+00	STANDING SHOCK 1.5335E+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.16C8E+00	REFLECTED SHOCK 4.4034E+02 4.1516E+01 1.0417E+01 4.6874E+01 5.7920E+00
P T RHO H A S	MOVING SHOCK 5-8003E+01 1-5416E+01 3-7624E+00 1-5416F+01 3-9263E+00 1-1372E+00 1-000E+00	STANDING SHOCK 1.0488E+02 1.4658E+01 5.3350E+00 1.9659E+01 4.4326E+00 1.1380E+00 1.0000E+00	REFLECTED SHOCK 3.20-08-502. 3.40128-01 9.39188-00 3.49378-01 5.5386F+00 1.15428-00 1.00338-00	P T RHJ H A S Z	MOVING SHOCK d-10825+01 2-11805+01 3-82825+00 2-11845+01 4-59825+00 1-15995+00 1-00055+00	STANDING SHOCK 1.5335E+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.1608E+00 1.3004E+00	**EFLECTED SHOCK 4.4034E+02 4.1516E+01 1.0417E+01 4.6874E+01 5.792@+00 1.1772E+00 1.0182E+00
P T RHO H A S Z GAME	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00 1.1372E+00 1.0030E+00 9.999E-01	STANDING SHOCK 1.0488E+02 1.9458E+01 5.3350E+00 1.9459E+01 4.4326E+00 1.1380E+00 1.0000E+90 9.9946E-01	REFLECTED SHOCK 3.26.86.502.3 3.401.26.401 9.391.86.400 3.493.76.401 5.538.6F.400 1.154.26.400 1.003.36.400 8.989.86.401	P T RHJ H A S Z GAME	MOVING SHOCK 8-1082E+01 2-1180E+01 3-8232E+00 2-1184E+01 4-5982E+00 1-1599E+00 1-0000E+00 9-9825E-01	STANDING SHOCK 1.53355+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.1608E+00 1.3004E+00 9.7417E-01	**EFLECTED SHOCK
P T RHO H A S Z GAME	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1372E+00 1.000E+00 9.999E-01 5.0154E+00	STANDING SHOCK 1.0488E+02 1.9458E+01 5.3350E+00 1.9459E+01 4.4326E+00 1.1380E+00 1.0000E+90 9.9946E-01	REFLECTED SHOCK 3.20 NE 502. 3.401.26 01 9.3916E+00 3.4937E+01 5.5386F+00 1.1542E+00 1.0033E+00 8.983E+01 3.3305E+00	P T RHJ H A S Z GAME	MOVING SHOCK 8-10825+01 2-11805+01 3-82825+00 2-11845+01 4-59825+00 1-15995+00 1-00005+00 9-98255-01 5-96205+00	STANDING SHOCK 1.53355+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.1608E+00 1.3004E+00 9.7417E-01	4-4034E+02 4-1516E+01 1-0417E+01 4-6874E+01 5-7920E+00 1-1772E+00 1-0182E+00 7-9363E-01 3-4824E+00
P T RHO H A S Z GAME U	MOVING SHOCK 5-8003E+01 1-54-6E+01 3-7624E+00 1-54-6E+01 3-9263E+00 1-1372E+00 1-0030E+00 9-999E-01 5-0154E+00	STANDING SHOCK 1.0488E+02 1.9658E+01 5.3350E+00 1.9659E+01 4.4326E+00 1.1380E+00 1.000E+90 9.9946E-01 3.5250E+00	REFLECTED SHOCK 3.26 to 100 3.4012E 00 9.3918E + 00 3.4937E + 01 5.5386F + 00 1.1542E + 00 1.003E + 00 8.9898E - 01 3.3305E + 00	P T RHJ H A S Z GAME U	MOVING SHOCK 8-10825+01 2-11805+01 3-82325+00 2-11845+01 4-59825+00 1-15995+00 1-00005+00 9-8255-01 5-96205+00	STANDING SHOCK 1.53355+02 2.74186+01 5.59086+00 2.75322+01 5.16926+00 1.16086+00 1.30046+00 9.74176-01 4.06226+00	**EFLECTED SHOCK
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1372E+00 1.000E+00 9.999E-01 5.0154E+00	STANDING SHOCK 1:0488E+02 1:9458E+01 5:3350E+00 1:9459E+01 4-4326E+00 1:1380E+00 1:0300E+00 9:9946E-01 3:5250E+00	REFLECTED SHOCK 3.20 NE 502. 3.40126.401 9.39166.00 3.49376.401 5.5386F.00 1.15426.400 1.00336.400 8.98986.01 3.33056.400	P T RHJ H A S Z GAME U SPECIES	MOVING SHOCK 8-1082E+01 2-1180E+01 3-8282E+00 2-1184E+01 4-5982E+00 1-1599E+00 1-0000E+10 9-9825E-01 5-9620E+00	STANDING SHOCK 1.5335E+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.1608E+00 1.3004E+00 9.7417E-01 4.0622E+00 	4-4034E+02 4-1516E+01 1-0417E+01 4-6874E+01 5-7920E+00 1-1772E+00 1-0182E+00 7-9363E-01 3-4824E+00
P T RHO H A S Z Z GAME U SPECIES	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00 1.1372E+00 1.0000E+00 9.999E-01 5.0154E+00 5.8278E-08 1.0000E+00	STANDING SHOCK 1:0488E+02 1:0458E+01 5:3350E+00 1:9659E+01 4:4326E+00 1:1380E+00 1:0000E+00 9:9946E-01 3:5250E+00 MULE FRACTIONS 4:1822E+06 9:999E-01	REFLECTED SHOCK 3.26+86-60; 3.4012E+01 9.3918E+00 3.4937E+01 5.5386F+00 1.1542E+00 1.0033E+00 8.9898E-01 3.3305E+00	P T RHJ H A S Z GAME U SPECIES	MOVING SHOCK 8-10825+01 2-11805+01 3-82825+00 2-11845+01 4-59825+00 1-15995+00 1-00025+00 9-98255-01 5-96205+00	STANDING SHOCK 1.5335E+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.1608E+00 9.7417E-01 4.062ZE+00 - MOLE FRACTIONS 4.2116E-04 9.9916E-01	**EFLECTED SHOCK
PTRHOHA A S Z GAME U SPECIES	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00 1.1372E+00 1.0030E+00 9.999E-01 5.0154E+00 5.8278E-08 1.0000E+00 5.8278E-08	STANDING SHOCK 1.0488E+02 1.9458E+01 5.3350E+00 1.9459E+01 4.4326E+00 1.1380E+00 1.3000E+00 3.5250E+00 - MOLE FRACTIONS 4.1822E-06 9.999E-01 4.1822E-06	REFLECTED SHOCK 3.26 Mg 102 3.4012 9.3918 9.3918 1.55286 1.003 28 3.2806 3.2806 3.2806 3.2806 3.2806 3.2806 3.2806 3.2806	P T RHD H A S Z GAME U SPECIES E- A	MOVING SHOCK 8-1082E+01 2-1180E+01 3-8232E+00 2-1184E+01 4-5982E+00 1-1599E+00 1-0000E+00 9-9825E-01 5-9620E+00	STANDING SHOCK 1.53355+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.1608E+00 1.0004E+00 9.7417E-01 4.0622E+00 - MOLE FRACTIONS 4.2116E-04 9.9916E-01 4.2116E-04	**EFLECTED SHOCK
PTTRHOHA A S Z GAME U SPECIES	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00 1.1372E+00 1.1372E+00 1.000E+00 9.999E-01 5.0154E+00 5.8278E-08 1.0000E+00 5.8278E-08 1.0000E+00 5.8278E-08	STANDING SHOCK 1:0488E+02 1:9658E+01 5:3350E+00 1:9659E+01 4-4326E+00 1:1380E+00 1:0000E+00 9:9946E-01 3:5250E+00 - MOLE FRACTIONS 4:1822E-06 9:9999E-01 4:1822E-06 2:9151E-22	REFLECTED SHOCK 3.20 NE 2021 3.4012E 01 9.3916E 00 3.4937E +01 5.5386F +00 1.1542E +00 1.0038E +00 8.9898E -01 3.3305E +00 3.2806E -03 9.9344F -01 3.2806E -03 3.7629E -12	P T RHD H A S Z GAME U SPECIES E- A A+ A+	MOVING SHOCK 8-1082E+01 2-1180E+01 3-8282E+00 4-5982E+00 1-1599E+00 1-0000E+30 9-982E+01 5-9620E+00	STANDING SHOCK 1.53355+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.1004E+00 9.7417E-01 4.0622E+00 - MOLE FRACTIONS 4.2116E-04 9.9916E-01 4.2116E-04 2.2934E-15	4-4034E+02 4-1516E+01 1-0417E+01 4-6874E+01 5-7920E+00 1-1772E+00 1-0182E+00 7-9363E-01 3-4824E+00
PTTHOHA A S Z GAME U SPECIES	MOVING SHOCK 5-8003E+01 1-5416E+01 3-7624E+00 1-5416E+01 3-9263E+00 1-3020E+00 9-999E-01 5-0154E+00 	STANDING SHOCK 1:0488E+02 1:9658E+01 5:3350E+00 1:9659E+01 4:4326E+00 1:0300E+00 9:9946E-01 3:5250E+00 - MOLE FRACTIONS 4:1822E-06 9:999E-01 4:1822E-06 2:9151E-22 3:6318E-50	REFLECTED SHOCK 3.26+82-02 3.4012E+01 9.3918E+00 3.4937E+01 5.5386F+00 1.1542E+00 1.003E+00 8.9898E-01 3.3305E+00 3.2806E-03 9.9344F-01 3.2806E-03 3.1629E-12 3.8523E-28	P T RHJ H A S Z GAME U SPECIES	MOVING SHOCK 8-1082E+01 2-1180E+01 3-8282E+00 2-1184E+01 4-5982E+00 1-0002E+00 1-0002E+00 9-9825E-01 5-9620E+00	STANDING SHOCK 1.53355+02 2.74186+01 5.59086+00 2.75322+01 5.16926+00 1.00046+00 9.74176-01 4.06226+00 - MOLE FRACTIONS 4.21166-04 9.99166-01 4.21366-04 2.29346-15 3.00696-35	**EFLECTED SHOCK
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00 1.1372E+00 1.0050E+00 9.999E-01 5.0154E+00 5.8278E-08 1.0000E+00 5.8278E-08 6.6718E-29 1.6621E-64 0.	STANDING SHOCK 1.0488E+02 1.9458E+01 5.3350E+00 1.9459E+01 4.4326E+00 1.1380E+00 1.3000E+90 9.9946E-01 3.5250E+00 - MOLE FRACTIONS 4.1822E-06 9.9999E-01 4.1822E-06 2.9151E-22 3.6318E-50 0.	REFLECTED SHOCK 3.26+86-02 3.4012E+01 9.3918E+00 3.4937E+01 5.5386F+00 1.1542E+00 1.0033E+00 8.9898E-01 3.3305E+00 3.2806E-03 9.9344F-01 3.2806E-03 3.7629E-12 3.8523E-28 5.1517E-53	P T RHD H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 8-1082E+01 2-1180E+01 3-8232E+00 2-1184E+01 4-5982E+00 1-1599E+00 1-0000E+00 9-9825E+01 5-9620E+00	STANDING SHOCK 1.53355+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.1608E+00 9.7417E-01 4.0622E+00 - MOLE FRACTIONS 4.2116E-04 9.9916E-01 4.2116E-04 2.2934E-15 3.0069E-35 2.8964E-65	4-40346+02 4-40346+02 4-1516E+01 1-0417E+01 5-7920E+00 1-1772E+00 1-0182E+00 7-9363E-01 3-4624E+00 1-7861E-02 9-6428E-01 1-7861E-02 1-3808E-09 1-4952E-22 1-1962E-22
PTTRHOHAASSZGAMEUUSSPECIES	MOVING SHDCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00 1.1372E+00 1.1372E+00 1.000E+00 9.999E-01 5.0154E+00 5.8278E-08 1.0000E+00 5.8278E-08 1.0000E+00 5.8278E-08	STANDING SHOCK 1:0488E+02 1:9658E+01 5:3350E+00 1:9659E+01 4:4326E+00 1:1380E+00 1:0000E+00 9:9946E-01 3:5250E+00 - MOLE FRACTIONS 4:1822E-06 9:9999E-01 4:1822E-06 2:9151E-22 3:6318E-50 0:	REFLECTED SHOCK 3.20 NEW 5021 3.4012E 01 9.3916E 00 3.4937E +01 5.5386F +00 1.1542E +00 1.0032E +00 8.9898E -01 3.3305E +00 3.2806E -03 9.9344F -01 3.2806E -03 3.7629E -12 3.8523E -28 5.1517E -53 7.2328E -86	P T RHD H A S Z GAME U SPECIE:	MOVING SHOCK 8-1082E+01 2-1180E+01 3-8282E+00 4-5982E+00 1-1599E+00 1-1599E+00 5-9620E+00 1-5907E-05 9-9997E-01 1-5907E-05 2-3094E-20 3-9171E-46	STANDING SHOCK 1.53355+02 2.74186+01 5.59086+00 2.75322+01 5.16926+00 1.00046+00 9.74176-01 4.06226+00 - MOLE FRACTIONS 4.21166-04 9.99166-01 4.21366-04 2.29346-15 3.00696-35	**EFLECTED SHOCK
PTTRHOHAASSZGAMEUUSSPECIES	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00 1.1372E+00 1.0050E+00 9.999E-01 5.0154E+00 5.8278E-08 1.0000E+00 5.8278E-08 6.6718E-29 1.6621E-64 0.	STANDING SHOCK 1.0488E+02 1.9458E+01 5.3350E+00 1.9459E+01 4.4326E+00 1.1380E+00 1.3000E+90 9.9946E-01 3.5250E+00 - MOLE FRACTIONS 4.1822E-06 9.9999E-01 4.1822E-06 2.9151E-22 3.6318E-50 0.	REFLECTED SHOCK 3.26+86-02 3.4012E+01 9.3918E+00 3.4937E+01 5.5386F+00 1.1542E+00 1.0033E+00 8.9898E-01 3.3305E+00 3.2806E-03 9.9344F-01 3.2806E-03 3.7629E-12 3.8523E-28 5.1517E-53	P T RHD H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 8-1082E+01 2-1180E+01 3-8232E+00 2-1184E+01 4-5982E+00 1-1599E+00 1-0000E+00 9-9825E+01 5-9620E+00	STANDING SHOCK 1.53355+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.1608E+00 9.7417E-01 4.0622E+00 - MOLE FRACTIONS 4.2116E-04 9.9916E-01 4.2116E-04 2.2934E-15 3.0069E-35 2.8964E-65	4-40346+02 4-40346+02 4-1516E+01 1-0417E+01 5-7920E+00 1-1772E+00 1-0182E+00 7-9363E-01 3-4624E+00 1-7861E-02 9-6428E-01 1-7861E-02 1-3808E-09 1-4952E-22 1-1962E-22
P T RHO H A S Z GAME U	MOVING SHDCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416F+01 3.9263E+00 1.1372E+00 1.1372E+00 1.000E+00 9.999E-01 5.0154E+00 5.8278E-08 1.0000E+00 5.8278E-08 1.0000E+00 5.8278E-08	STANDING SHOCK 1:0488E+02 1:9658E+01 5:3350E+00 1:9659E+01 4:4326E+00 1:1380E+00 1:0000E+00 9:9946E-01 3:5250E+00 - MOLE FRACTIONS 4:1822E-06 9:9999E-01 4:1822E-06 2:9151E-22 3:6318E-50 0:	REFLECTED SHOCK 3.20 NEW 5021 3.4012E 01 9.3916E 00 3.4937E +01 5.5386F +00 1.1542E +00 1.0032E +00 8.9898E -01 3.3305E +00 3.2806E -03 9.9344F -01 3.2806E -03 3.7629E -12 3.8523E -28 5.1517E -53 7.2328E -86	P T RHD H A S Z GAME U SPECIE:	MOVING SHOCK 8-1082E+01 2-1180E+01 3-8282E+00 4-5982E+00 1-1599E+00 1-1599E+00 5-9620E+00 1-5907E-05 9-9997E-01 1-5907E-05 2-3094E-20 3-9171E-46	STANDING SHOCK 1.5335E+02 2.7418E+01 5.5908E+00 2.7532E+01 5.1692E+00 1.1004E+00 9.7417E-01 4.0622E+00 - MOLE FRACTIONS 4.2116E-04 9.9916E-01 4.2116E-04 2.2934E-15 3.0069E-35 2.8964E-66 0.	4-4034E+02 4-1516E+01 1-0417E+01 4-6874E+01 5-7920E+00 1-1772E+00 1-0182E+00 7-9363E-01 3-4824E+00 1.7861E-02 9-6428E-01 1.7861E-02 1.3808E-09 1.4952E-22 1.1962E-42 2.3887E-69

P1 = 2.00E+04 N/SQ-M, US1= 2.80E+03 M/SEC	PI = 2.00E+04 N/SQ-M; USI= 3.20E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 9.4141E+01 1.8525E+02 5.0442E+02	P 1.2383E+02 2.8331E+02 6.5662E+02
T 2.4405E+01 3.1698E+01 4.4329E+01	T 3.1155E+01 3.9778E+01 4.9135E+01
RHD 3.8570E+00 5.8321E+00 1.1054E+01	RHO 3.9656E+00 7.0128E+00 1.2641E+01'
H 2.4436E+01 '3.2270E+01 '5.3165E+01	H 3.1731E+01 4.4299E+01 6.7056E+01
A 4.9167E+00 5.4087E+00 5.9209E+00	A 5.3542F+00 5.4847F+00 A.2012F+00
S 1.1702E+00 1.1713E+00 1.1884E+00	S 1.1891E+00 1.1915E+00 1.2115E+00
	1110/11/100
Z 1.0001E+00 1.0021E+00 1.0294E+00	
GAME 9.9044E-01 9.2098E-01 7.6826E-01	GAME 9.1826E-01 7.9992E-01 7.4033E-01
U 6:4389E+00 4.2379E+00 3.4732E+00	U 7.4303E+00 4.1838E+00 3.4162E+00
	SPECIES MOLE FRACTIONS
SPECIES MOLE FRACTIONS	SECTES
E- 1.1785E-04 2.0572E-03 2.8524E-02	E- 2.0820E-03 1.5359E-02 5.4055E-02
A 9.9976E-01 9.9589E-01 9.4295E-01	A 9.9584E-01 9.6928E-01 8.9189E-01 4
	A+ 2.0820E-03 1.5359E-02 5.4055E-02
A+ 1.1785E-04 2.0572E-03 2.8524E-02	
A++ 2.2023E-17 5.4455E-13 7.3819E-09	A++ 4.3266E-13 6.2051E-10 7.9327E-08
A+++ 7.9452E-40 4.4483E-30 5.9003E-21	A+++ 2.1328E-30 2.0444E-23 1.1297E-18 +
A++++ 8.4746E-74 ₩1.3313E-56 1.0325E-39	A++++ 2.7407E-57 2.3710E-44 1.6525E-35
AV 0. 7.2989E-92 1.1260E-64	AV 0. 3.7659E-72 5.5349E-58 44
AVI 0. 0.	AVI 0. 0. 1.6394E-86
	AVII 0. 0. 0.
AVIII 0. 0.	AVIII 0. 0.
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P1 = 2.00E+04 N/SQ-N. USI= 3.00F+03 M/SEC	2.* P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC
(P1 = 2.00E+04'N/SQ-N, USI= 3.00E+03 M/SEC	
	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC
P1 = 2.00E+04 N/SQ-M, USI= 3.00E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02 '2.2748E+02 5.7440E+02	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4107E+02 3.5167E+02 7.5879E+02 T 3.4310E+01 4.3119E+01 5.1406E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4107E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02 '2.2748E+02 5.7440E+02 T 2.7782E+01 3.5926E+01 4.6830E+01 RHO 3.8958E+00 6.2895E+00 1.1766E+01 H 2.7942E+01 3.7836E+01 5.9824E+01	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHDCK REFLECTED SHDCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHDCK REFLECTED SHDCK P 1.4107E+02 3.5167E+02 7.5879E+02 T 3.4310E+01 3.4219E+01 5.1406E+01 H 3.5830E+01 5.1426E+01 7.5058E+01 A 5.4553E+00 5.8380E+00 6.3551E+00 S 1.1981E+00 1.2018E+00 1.2235E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHDCK REFLECTED SHDCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHDCK REFLECTED SHDCK P 1.4107E+02 3.5167E+02 7.5879E+02 T 3.4310E+01 3.4219E+01 5.1406E+01 H 3.5830E+01 5.1426E+01 7.5058E+01 A 5.4553E+00 5.8380E+00 6.3551E+00 S 1.1981E+00 1.2018E+00 1.2235E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHDCK REFLECTED SHDCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02 2.2748E+02 5.7440E+02 7.27782E+01 3.5926E+01 4.6830E+01 RHO 3.8958E+00 6.2895E+00 1.1766E+01 H 2.7942E+01 3.7836E+01 5.9824E+01 A 5.1813E+00 5.5513E+00 6.0579E+00 5 1.1799E+00 1.1814E+00 1.1999E+00 1.0405E+00 6.06574E+01 6.06574E+00 6.06574E+00 6.06574E+00 6.06574E+01 6.5205E+01 7.5171E+01 6.06574E+01 6.5205E+01 7.5171E+01 6.06574E+01 6.06574E	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHDCK REFLECTED SHDCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02 2.2748E+02 5.7440E+02 7.27782E+01 3.5926E+01 4.6830E+01 RHO 3.8958E+00 6.2895E+00 1.1766E+01 H 2.7942E+01 3.7836E+01 5.9824E+01 A 5.1813E+00 5.5513E+00 6.0579E+00 5 1.1799E+00 1.1814E+00 1.1999E+00 1.0405E+00 6.06574E+01 6.06574E+00 6.06574E+00 6.06574E+00 6.06574E+01 6.5205E+01 7.5171E+01 6.06574E+01 6.5205E+01 7.5171E+01 6.06574E+01 6.06574E	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02 2.2748E+02 5.7440E+02 1.27782E+01 4.6830E+01 4.6830E+01 4.6830E+01 4.6830E+01 4.6830E+01 4.6830E+01 4.6830E+01 4.6830E+01 4.6830E+01 5.9824E+01 4.6830E+01 5.9824E+01 4.6830E+01 5.9824E+01 4.6830E+01 5.9824E+01 4.51813E+00 5.5513E+00 6.0579E+00 5.11799E+00 1.1814E+00 1.1999E+00 5.9230E+00 1.000E+00 1.000E+00 1.000E+00 0.000E+00 0.000E	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHDCK REFLECTED SHDCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.4107E+02 3.5167E+02 7.5879E+02 T 3.4310E+01 4.43119E+01 5.1406E+01 RHO 4.0893E+00 7.9337E+00 1.3747E+01 H 3.5830E+01 5.1426E+01 7.5058E+01 A 5.4553E+00 5.8380E+00 7.5058E+01 S 1.1981E+00 1.2018E+00 1.2235E+00 Z 1.0054E+00 1.0280E+00 1.0738E+00 GAME 8.6272E-01 7.6888E-01 7.3169E-01 U 7.9742E+00 4.0991E+00 3.3918E+00 SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.0830E+02 2.2748E+02 5.7440E+02 T 2.7782E+01 3.5926E+01 4.6830E+01 RHO 3.8958E+00 6.2895E+00 1.1766E+01 M 2.7942E+01 3.7836E+01 5.9824E+01 A 5.1813E+00 5.5513E+00 6.0579E+00 S 1.1799E+00 1.1814E+00 1.1999E+00 Z 1.0006E+00 1.0067E+00 1.0425E+00 GAME 9.6574E-01 8.5205E-01 7.5171E-01 U 6.9230E+00 4.2716E+00 3.4463E+00 SPECIES	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHOCK REFLECTED SHDCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHDCK REFLECTED SHDCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHOCK REFLECTED SHDCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHDCK STANDING SHDCK REFLECTED SHDCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	P1 = 2.00E+04 N/SQ-M, US1= 3.40E+03 M/SEC MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P

P1 =	2.00E+04 N/SQ-M	. US1= 3.60E+0	3 M/SEC	P1 = 2	.00E+04 N/SQ-M	, US1= 4.00E+0	3 M/SEC
		•					
	HOUTE CHOCK	CTANDING CHOCK	MEET ECTED CHOCK		HOUTHE CHOCK	STANDING SHOCK	DEEL COACO CHOCH
Р	1.6012E+02	4.3677E+02	REFLECTED SHOCK 8.8600E+02	P	2.0329F+02	6.5879E+02	REFLECTED SHOCK 1.2197E+03
ĭ		4.6133E+01	5.3666E+01	Ť	4.1759E+01	5.1456E+01	5.8125E+01
RHO	3.7120E+01 4.2666E+30	9.0743E+00	1.51185+01	RHO	4.7350E+00	1.18586+01	1.8531E+01
H		5.9291E+01	8.3902E+01	H	4.9973E+01	7.6865E+01	1.0389E+02
Ä	4.0248E+01 5.5385E+00	6.0086E+00	6.5176E+00	Ä	5.7325E+00	6.3662E+00	6.8560E+00
Š	1.2070E+00	1.21258+00	1.2360E+00	ŝ	1.22546+00	1.2353E+00	1.2626E+CO
ž	1.01105+00	1.0433E+00	1.0921E+00	ž	1.02816+00	1.0797E+00	1.1323E+00
GAME	8.1739E-01	7.5009E-01	7.2481E-01	GAME	7.65405-01	7.2950E-01	7.1416E-01
U	8.55556+00	4.0081E+00	3.3760E+00	Ú	9.78945+00	3.8933E+00	3.3671E+00
	_		•				
SPECIE	S	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	1.0878E-02	4.1544E-02	8.4314E-02	E-	2.7362E-02	7.3799E-02	1.1688E-01
A	9.7824E-01	9.1691E-01	8.3137E-01	A	9.4528E-01	8.5240E-01	7.6625E-01
A+ '	1.0878E-02	4.1544E-02	8.4314F-02	A+	2.7362E-02	7.3799E-02	1.16875-01
A++	1:3272E-10	2.4384E-08	4.6902E-07	A++	3.5293E-09	2.3919E-07	1.9513E-06
A+++	5.1564E-25	6.9755E-20	6.2083E-17	A+++	6.8023E-22	1.2142E-17	1.6383E-15
A++++	1.7434E-47	8.0950E-38	2.7874F-32	A++++	1.01076-41	1.2003E-33	1.2373E-29
AV	1.16158-77	4.7665E-62	8.0618F-53	AV ·	2.90216-68	4.7130E-55	1.3884E-48
AVI	0.	0.	6.2640E-79	AVI	J.	2.9470E-82	9.8503E-73
IIVA	o.	0.	0.	IIVA	0.	0.	0.
IIIVA	0.	0.	0.	AVIII	o.	0.	0.
							•
						, .	•
P1 =	2.00E+04 N/SQ-M	. US1= 3.80E+0	3 M/SEC	P1 = 2	.00E+04 N/SQ-M		3 M/SEC
P1 =		. •		P1 = 2		• US1= 4.20E+0	•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	. US1= 4.20E+0	REFLECTED SHOCK
P	MOVING SHOCK 1.8091E+02	STANDING SHOCK 5.3802E+02	REFLECTED SHOCK 1.0397E+03	ρ	MOVING SHOCK (2.2716E+02	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02	REFLECTED SHOCK 1-4257E+03
P T	MOVING SHOCK 1.8091E+02 3.9583E+01	STANDING SHOCK 5.3802E+02 4.8877E+01	REFLECTED SHOCK 1.0397E+03 5.5909E+01	P T	MOVING SHOCK: 2.2716E+02 4.3715E+01	, US1 = 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01	REFLECTED SHOCK 1-42575+03 6-0312E+01
P T RHO	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+00	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01	P T RHO	MOVING SHOCK: 2.2716E+02 4.3715E+01 5.0013E+00	. US1 = 4.20E+0 STANDING SHDCK 7.9707E+02 5.3879E+01 1.3453E+01	REFLECTED SHOCK 1 4257E+03 6-0312E+01 2-0491E+01
P T RHO H	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+00 4.4968E+01	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01 6.7754E+01	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01	P T RHO H	MOVING SHUCK: 2.2716E+02 4.3715E+01 5.0013E+00 5.5250E+01	, US1 = 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01	REFLECTED SHOCK 1-4257E+03 6-0312E+01 2-0491E+01 1-1489E+02
P T RHO H	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+00 4.4968E+01 5.6332E+00	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01 6.7754E+01 6.1857E+00	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00	P T RHO	MOVING SHOCK: 2.2716E+02 4.3715E+01 5.0013E+00 5.5250E+01 5.8420E+00	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00	REFLECTED SHOCK 1-4257E+03 6-0312E+01 2-0491E+01 1-1489E+02 7-0275E+00
P T RHO H A S	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+00 4.4968E+01 5.6302E+00 1.2161E+00	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01 6.7754E+01 6.1857E+00 1.2236E+09	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00	P T RHO H	MOVING SHOCK: 2-2716E+02 4-3715E+01 5-0013E+00 5-5250E+01 1-2350E+00	. US1 = 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00	REFLECTED SHOCK 1-4257E+03 6-0312E+01 2-0491E+01 1-1489E+02 7-0275E+00 1-2767E+00
P T RHO H A S	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+00 4.4968E+01 5.6302E+00 1.2161E+00 1.0187E+00	STANDING SHOCK 5-3802E+02 4-8877E+01 1-0378E+01 6-7754E+01 6-1857E+00 1-2236E+00 1-0607E+00	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.1117E+00	P T RHD H A S	MOVING SHUCK. 2.2716E+02 4.3715E+01 5.0013E+00 5.5250E+01 5.8420E+00 1.2350E+00 1.3390E+00	STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 6.5452E+00 1.2476E+00 1.0997E+00	REFLECTED SHOCK 1.4257E+03 6.0312E+01 2.0491E+01 1.1489E+02 7.0275E+00 1.2767E+00 1.1536E+00
P T RHO H A S	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+00 4.4968E+01 5.6302E+00 1.2161E+00	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01 6.7754E+01 6.1857E+00 1.2236E+09	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00	P T RHO H A S	MOVING SHOCK: 2-2716E+02 4-3715E+01 5-0013E+00 5-5250E+01 1-2350E+00	. US1 = 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00	REFLECTED SHOCK 1-4257E+03 6-0312E+01 2-0491E+01 1-1489E+02 7-0275E+00 1-2767E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.8091E+02 3.9543E+01 4.4865E+70 4.4968E+01 5.6302E+00 1.2161E+00 1.0187E+00 7.8613E-01	STANDING SHOCK 5.3802E+02 4.887TE+01 1.0378E+01 6.7754E+01 6.185TE+00 1.2236E+00 1.0607E+00 7.3803E-01	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.117E+00 7.1909E-01	P T RHD H A S L GAME	MOVING SHUCK: 2-2716E+02 4-3715E+01 5-0013E+00 5-5250E+01 5-8420E+00 1-2350E+00 1-3340E+00 7-5140E-01	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00 1.0997E+00 7.2303E-01	REFLECTED SHOCK 1: 4257F + 03 6.0312F + 01 2.0491F + 01 1.1439F + 02 7.0275F + 00 1.2767F + 00 1.1536F + 00 7.0980F - 01
P T RHO H A S Z GAME	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+70 4.4968E+01 5.6302E+00 1.2161E+00 1.0187E+00 7.8613E-01 9.1642E+00	STANDING SHOCK 5.3802E+02 4.887TE+01 1.0378E+01 6.7754E+01 6.185TE+00 1.2236E+00 1.0607E+00 7.3803E-01	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.1117E+00 7.1909E-01 3.3683E+00	P T RHD H A S L GAME	MOVING SHUCK: 2-2716E+02 4-3715E+01 5-0013E+00 5-5250E+01 5-8423E+00 1-2350E+00 1-2350E+00 1-0340E-01 1-0423E+01	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00 1.0997E+00 7.2303E-01	REFLECTED SHOCK 1-4257E+03 6.0312E+01 2.0491E+01 1.1439E+02 7.0275E+00 1.2767E+00 1.1536E+00 7.0980E-01 3.3712E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+70 4.4968E+01 5.6302E+00 1.2161E+00 1.0187E+00 7.8613E-01 9.1642E+00	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01 6.1754E+01 6.1857E+00 1.2236E+00 1.0607E+00 7.3803E-01 3.9527E+00 - MULE FRACTIONS 5.7225E-02	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.1117E+00 7.1909E-01 3.3683E+00	P T RHO H A S L GAME U SPECIES	MOVING SHUCK: 2-2716E+02 4-3715E+01 5-0013E+00 5-5250E+01 5-8423E+00 1-2350E+00 1-0340E+00 1-0423E+01	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00 1.0997E+00 7.2303E-01 3.8639E+00	REFLECTED SHOCK 1-4257E+03 6.0312E+01 2.0491E+01 1.1489E+02 7.0275E+00 1.2767E+00 1.1536E+00 7.0980E-01 3.3712E+00
P T RHD H A S Z GAME U	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+00 4.4968E+01 5.6332E+00 1.2161E+00 1.0187E+00 7.8613E-01 9.1642E+00	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01 6.1857E+00 1.2236E+00 1.0607E+00 7.3803E-01 3.9527E+00 - MULE FRACTIONS 5.7225E-02 8.8555E-01	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.1117E+00 7.1909E+01 3.3683E+00	P T RHO H A S S L GAME U SPECIES	MOVING SHUCK: 2.2716E+02 4.3715E+01 5.0013E+00 5.5250E+01 5.8420E+00 1.2350E+00 1.0340E+01 1.0423E+01 3.7561E-02 9.2488E-01	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 6.5452E+00 1.2476E+00 1.0997E+00 7.2303E-01 3.8639E+00 - MOLE FRACTIONS 9.0647E-02 8.1871E-01	REFLECTED SHOCK 1.4257E+03 6.0312E+01 2.0491E+01 1.1489E+02 7.0275E+00 1.2767E+00 1.1536E+00 7.0980E-01 3.3712E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.8091E+02 3.9543E+01 4.4865E+70 4.4968E+01 5.6302E+00 1.2161E+00 1.0187E+00 7.8613E-01 9.1642E+00 S	STANDING SHOCK 5.3802E+02 4.887TE+01 1.0378E+01 6.185TE+00 1.2236E+00 1.2236E+00 1.3803E-01 3.9527E+00 - MULE FRACTIONS 5.7225E-02 4.8555E-01 5.7225E-02	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.117E+00 7.1909E-01 3.3683E+00	P T RHO H A S C GAME U SPECIES E- A	MOVING SHUCK: 2-2716E+02 4-3715E+01 5-0013E+00 5-5250E+01 5-8420E+00 1-2350E+00 1-0340E+01 1-0423E+01 3-7561E-02 9-2488E-01 3-7561E-02	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00 1.097FE+00 7.2303E-01 3.8639E+00 - MOLE FRACTIONS 9.0647E-02 8.1871E-01 9.0646E-02	REFLECTED SHOCK 1: 4257F + 03 6.0312E + 01 2.0491E + 01 1.1489E + 02 7.0275E + 00 1.276F + 00 1.1536E + 00 7.0980E - 01 3.3712E + 00 1.3316E - 01 7.3368E - 01 1.3315E - 01
PTRHDHASSZGAMEUSPECIE	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+00 4.4968E+01 5.6332E+00 1.2161E+00 1.0187E+00 7.8613E-01 9.1642E+00 S	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01 6.1857E+00 1.2236E+00 1.0607E+00 7.3803E-01 3.9527E+00 - MULE FRACTIONS 5.7225E-02 8.8555F-01 5.7225E-02 8.5102E-08	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.1117E+00 7.1909E-01 3.3683E+00 1.0050E-01 9.9344E-07	P T RHO H A S L GAME U SPECIES E- A A+	MOVING SHUCK: 2.2716E+02 4.3715E+01 5.0013E+00 5.5250E+01 5.8420E+00 1.2350E+00 1.2350E+00 1.0340E+01 1.0423E+01 3.7561E-02 9.2488E-01 3.7561E-02 1.1246E-08	STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00 1.2997F+00 7.2303E-01 3.8639E+00 - MOLE FRACTIONS 9.0647E-02 8.1871E-01 9.0646E-02 5.7035E-07	REFLECTED SHOCK 1: 4257E+03 6.0312E+01 2.0491E+01 1.1489E+02 7.0275E+00 1.2767E+00 1.1536E+00 7.0980E-01 3.3712E+00 1.3316E-01 7.3368E-01 1.3315E-01 3.5995E-06
P T RHO H A S Z GAME U SPECIE E A A+++	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+00 4.4968E+01 5.6332E+00 1.2161E+00 1.0187E+00 7.8613E-01 9.1642E+00 S	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01 6.1857E+00 1.2236E+00 1.0607E+00 7.3803E-01 3.9527E+00 - MULE FRACTIONS 5.7225E-02 4.8555E-01 5.7225E-02 8.5102E-08 1.1601E-18	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.1117E+00 7.1909E+01 3.3683E+00 1.0050E+01 1.0050E+01 9.9344E+07 3.4526E+16	P T RHO H A S GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK: 2-2716E+02 4-3715E+01 5-0013E+00 5-5250E+01 5-8420E+00 1-2350E+03 1-0390E+03 1-0340E+01 3-7561E-02 1-2488E-01 3-7561E-02 1-1246E-08 8-8549E-21	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00 1.0997E+00 7.2303E-01 3.8639E+00 - MOLE FRACTIONS 9.0647E-02 8.1871E-01 9.0646E-02 5.7035E-07 8.8732E-17	REFLECTED SHOCK I: 4257E +03 6.0312E +01 2.0491E+01 1.1489E+02 7.0275E+00 1.2767E+00 1.1536E+00 7.0980E-01 3.3712E+00 1.3316E-01 7.3368E-01 1.3315E-01 3.5955E-06 6.7790E-15
P T RHO H A S Z GAME U SPECIE E - A + , A + + + + + + + + + + + + + + + +	MOVING SHOCK 1.8091E+02 3.9543E+01 4.4865E+70 4.4968E+01 5.6302E+00 1.2161E+00 1.0187E+00 7.8613E-01 9.1642E+00 S	STANDING SHOCK 5.3802E+02 4.887TE+01 1.0378E+01 6.1857E+00 1.2236E+00 1.2236E+00 1.303E-01 3.9527E+00 MULE FRACTIONS 5.7225E-02 4.8555E-01 5.7225E-02 8.5102E-08 1.1601E-18 1.4965E-35	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.1117E+00 7.1909E-01 3.3683E+00 1.0050E-01 7.9900E-01 1.0050E-01 9.9344E-07 3.4526E-16 6.7686E-31	P T RHO H A S L GAME U SPECIES E - A A + A + + A + + + A + + + + + + + +	MOVING SHUCK: 2-2716E+02 4-3715E+01 5-0013E+00 5-5250E+01 5-8423E+00 1-2350E+03 1-0340E+01 1-0423E+01 3-7561E-02 9-2488E-01 3-7561E-02 1-246E-08 8-8543E-21 1-2376E-39	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.0997E+00 7.2303E-01 3.8639E+09 - MOLE FRACTIONS 9.0647E-02 8.1871E-01 9.0646E-02 5.7035E-07 8.8732E-17 4.9172E-32	REFLECTED SHOCK 1: 4257F +03 6.0312E+01 2.0491E+01 1.1489E+02 7.0275E+00 1.2767E+00 1.1536E+00 7.0980E-01 3.3712E+00 1.3316E-01 7.3368E-01 1.3315E-01 3.5955E-06 6.7790E-15 1.7601E-28
P T RHD H A S Z G A ME U SPECIE E - A + + A + + + A + + + A + + + A + + + A + + + A + + A + + A +	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+70 4.4968E+01 5.63 J2E+00 1.2161E+00 1.0187E+00 7.8613E+01 9.1642E+00 S	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01 6.1857E+00 1.2236E+09 1.0607E+09 7.3803E-01 3.9527E+00 - MULE FRACTIONS 5.7225E-02 4.8555F-01 5.7225E-02 8.5102E-08 1.1601E-18 1.4965E-35 4.0428E-58	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.1117E+00 7.1909E-01 3.3683E+00 1.0050E-01 7.9900E-01 1.0050E-01 9.9344E-07 3.4526F-16 6.7686E-31 1.3132E-50	P T RHO H A S L GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHUCK: 2.2716E+02 4.3715E+01 5.0013E+00 5.5250E+01 5.8420E+00 1.2350E+00 1.2350E+00 1.0423E+01 3.7561E-02 9.2488E-01 3.7561E-02 1.1246E-08 8.8543E-21 1.2376E-39 9.1933E-65	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00 1.0997E+00 7.2303E-01 3.8639E+00 - MOLE FRACTIONS 9.0647E-02 8.1871E-01 9.0646E-02 5.7035E-07 8.8732E-17 4.9172E-32 1.8205E-52	REFLECTED SHOCK 1: 4257E+03 6.0312E+01 2.0491E+01 1.1489E+02 7.0275E+00 1.2767E+00 1.1536E+00 7.0980E-01 3.3712E+00 1.3316E-01 7.3368E-01 1.3315E-01 3.5995E-06 6.7790E-15 1.7601E-28 9.8901E-47
P T RHO H A S Z Z GAME U SPECIE E A A + , A + + + + A + + + + A V I	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+20 4.4968E+01 5.6302E+00 1.2161E+00 1.0187E+00 7.8613E-01 9.1642E+00 1.8339E-02 9.6332E-01 1.8339E-02 8.397E-10 2.9381E-23 3.2897E-44 4.0165E-72 0.	STANDING SHOCK 5.3802E+02 4.887TE+01 1.0378E+01 6.185TE+00 1.2236E+09 1.0607E+00 7.3803E-01 3.9527E+00 - MULE FRACTIONS 5.7225E-02 4.8555E-01 5.7225E-02 8.5102E-08 1.1601E-18 1.4965E-35 4.0428E-58 8.2445E-87	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.1117E+00 7.1909E-01 3.3683E+00 1.0050E-01 7.9900E-01 1.0050E-01 9.9344E-07 3.4526E-16 6.7686E-31 1.3132E-50 1.059E-05	P T RHO H A S GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHUCK: 2-2716E+02 4-3715E+01 5-0013E+00 5-5250E+01 5-8420E+00 1-2350E+00 1-03490E+01 1-0423E+01 3-7561E-02 9-2488E-01 3-7561E-02 1-1246E-08 8-8543E-21 1-2376E-39 9-1933E-65	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00 1.0997F+00 7.2303E-01 3.8639E+00 - MOLE FRACTIONS 9.0647E-02 8.1871E-01 9.0646E-02 5.7035E-07 8.8732E-17 4.9172E-32 1.8205E-52 1.8579E-78	REFLECTED SHOCK 1: 4257E + 03 6.0312E + 01 2.0491E + 01 1.1489E + 02 7.0275E + 00 1.2767E + 00 1.1536E + 00 7.0980E - 01 3.3712E + 00 1.3316E - 01 7.3368E - 01 1.3315E - 01 3.5955E - 06 6.7790E - 15 1.7601E - 28 9.8901E - 47 5.2254E - 70
P T RHD H A S Z G A ME U SPECIE E - A + + A + + + A + + + A + + + A + + + A + + + A + + A + + A +	MOVING SHOCK 1.8091E+02 3.9583E+01 4.4865E+70 4.4968E+01 5.63 J2E+00 1.2161E+00 1.0187E+00 7.8613E+01 9.1642E+00 S	STANDING SHOCK 5.3802E+02 4.8877E+01 1.0378E+01 6.1857E+00 1.2236E+09 1.0607E+09 7.3803E-01 3.9527E+00 - MULE FRACTIONS 5.7225E-02 4.8555F-01 5.7225E-02 8.5102E-08 1.1601E-18 1.4965E-35 4.0428E-58	REFLECTED SHOCK 1.0397E+03 5.5909E+01 1.6727E+01 9.354CE+01 6.6855E+00 1.249CE+00 1.1117E+00 7.1909E-01 3.3683E+00 1.0050E-01 7.9900E-01 1.0050E-01 9.9344E-07 3.4526F-16 6.7686E-31 1.3132E-50	P T RHO H A S L GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHUCK: 2.2716E+02 4.3715E+01 5.0013E+00 5.5250E+01 5.8420E+00 1.2350E+00 1.2350E+00 1.0423E+01 3.7561E-02 9.2488E-01 3.7561E-02 1.1246E-08 8.8543E-21 1.2376E-39 9.1933E-65	. US1= 4.20E+0 STANDING SHOCK 7.9707E+02 5.3879E+01 1.3453E+01 8.6489E+01 6.5452E+00 1.2476E+00 1.0997E+00 7.2303E-01 3.8639E+00 - MOLE FRACTIONS 9.0647E-02 8.1871E-01 9.0646E-02 5.7035E-07 8.8732E-17 4.9172E-32 1.8205E-52	REFLECTED SHOCK 1: 4257E+03 6.0312E+01 2.0491E+01 1.1489E+02 7.0275E+00 1.2767E+00 1.1536E+00 7.0980E-01 3.3712E+00 1.3316E-01 7.3368E-01 1.3315E-01 3.5995E-06 6.7790E-15 1.7601E-28 9.8901E-47

P1 = 2	2.00E+04 N/SQ-M	. US1= 4.40E+0	3 M/SEC	P1 = 2.	D0E+04 N/SQ-M	, US1= 4.80E+0	3 M/SEC
	•	*	•				
	MUNTHE CHOCK	STANDING SHOEK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
· P	2.5242E+02	9.5471E+02	1.6574E+03	р	3.0692E+02	1.3320E+03	2.1990E+03
Ť	4.5500E+01	5.6196E+01	6.2474E+01	Ť	4.8708E+01	6.0617E+01	6.6761E+01
RHD	5.27798+00	1.51628+01	2.2573E+01	RHO	5.8441E+00	1.8885E+01	2.7008E+01
н	6.0789E+01	9.66475+01		. н	7.2636E+01	1.1854E+02	1.5141E+02
Ä	5.9556E+00	6.72266+00	7.1995E+00	Ä	6.1883E+00	7.0727E+00	7.5462E+00
ŝ	1.2449E+00	1.2605E+00	1.2913E+00	S	1.2656E+30	1.2880E+00	1.32228+00
ž	1.0511E+00	1.12058+00	1.1753E+00	ž	1.07826+00	1.1636E+00	1.2196E+00
GAME	7.4162E-01	7.17758-01	7.05915-01	GAME	7.2919E-01	7.0921E-01	6.9940E-01
U	1.1061E+01	3.8426E+00	3.3799E+00	. V	1.2337E+01	3.8055E+00	3.4093E+00
-							
SPECIES	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
_	/ 0/335 03	1 07575 01	1 (0175 01	E-	7.2540E-02	1.4061E-01	1.8004E-01
E-	4.8632E-02	1.0752E-01	1.4917E-01	Ā	8.5492E-01	7.1879E-01	6.3994E-01
A	9.0274E-01	7.8496E-01	7.0167E-01	Ä+	7.2539E-02	1.4060E-01	1.8000E-01
A +	4.8632E-02	1.0752E-01	1.4916E-01	A++	1.3694E-07		1.7011E-05
A++	2.9444E-08	1.2097E-06	6.2828E-06	A+++	2.2767E-18	4.2647E-06 9.4435E-15	2-6155E-13
4+++	7.39748-20	5.0183E-16	2.4999E-14	A++++	3.3357E-35	3.0589E-28	1.6389E-25
A++++	5.8773E-38	1.2464E-30	2.0219E-27	AV	8.80598-58		
AV	3.2274E-62	3.1891E-50	4.9954E-45	AVI	6.5567E-87	2.2809E-46	
IVA	0.	3.36418-75	1.6654E-67	AVII	0.53616-61	1.7355E-69	5.5191E-63 3.3283E-91
AVII	2.	0.	o.	IIIVA	0.	0.	
IIIVA	э.	0.	0.	ATIT	0.	0.	0.
	•				,		
							1
P1 = 3	2.00E+04 N/SQ-M	, US1= 4.60E+0	3 M/SEC	P1 = 2.	00E+04 N/SQ-M	, US1= 5.00E+0	3 M/SEC
							*
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	2.79025+02	1.1343E+03	1.9151E+03	P	3.3609E+02	1.5507E+03	2.5093E+03
Ť	4.7155E+01	5.8445E+01	6.4619E+01	T	5.0180E+01	6.2747E+01	6.8913E+01
RHO	5.560CE+00	1.6996E+01	2.47525+01	RHD	6.1279E+00	2.0844E+01	2.9318E+01
н	6.6585E+01	1.0737E+02	1.3867E+02	H	7.8940E+01	1.3021E+02	1.6470E+02
Ä	6.07135+00	6.8990E+00	7.3721E+00	A	6.3061E+00	7.2454E+00	7.7228E+00
Š	1.25518+00	1.2740E+00	1.3065E+00	S	1.2765E+00	1.3026E+00	1.33846+00
ž	1.06425+00						1,24205+00
GAME		1.1419F+00	1.19736+00	Z	1.09305+00	1-1856E+00	
U		1.1419E+00 7.1320F-01	1.1973E+00 7.0244F-01	Z GAME	1.0930E+00 7.2506E-01	1.1856E+00 7.0566E-01	6.9684E-01
	7.34528-01	7.1320E-01	7.0244E-01				
•				GAME	7.2506E-01	7.0566E-01	6.9684E-01
	7.3452E-01 1.1699E+01	7.1320E-01	7.0244E-01 3.3926F+00	GAME	7.2506E-01 1.2973E+01	7.0566E-01	6.9684E-01 3.4300E+00
SPEC LE	7.3452E-01 1.1699E+01	7.1320E-01 3.8102E+00 - MOLE FRACTIONS	7.0244E-01 3.3926E+00	GAME U SPECIES	7.2506E-01 1.2973E+01	7.0566E-01 3.8053E+00 - MOLE FRACTIONS	6.9684E-01 3.4300E+00
SPECIE	7.3452E-01 1.1699E+01 S	7.1320E-01 3.8102E+00 - MOLE FRACTIONS 1.2426E-01	7.0244E-01 3.3926F+00	GAME U SPECIES E-	7.2506E-01 1.2973E+01	7.0566E-01 3.8053E+00 - MOLE FRACTIONS 1.5655E-01	6.9684E-01 3.4300E+00
SPECIE:	7.3452E-01 1.1699E+01 S	7.1320E-01 3.8102E+00 - MOLE FRACTIONS 1.2426E-01 7.5148E-01	7.0244E-01 3.3926F+00 3.40481E-01 6.7038E-01	GAME U SPECIES E- A	7.2506E-01 1.2973E+01 8.5075E-02 8.2985E-01	7.0566E-01 3.8053E+00 - MOLE FRACTIONS 1.5655E-01 6.8691E-01	6.9684E-01 3.4300E+00 1.9483E-01 6.1036E-01
SPECIE.	7.3452E-01 1.1699E+01 S	7.1320E-01 3.8102E+00 - MOLE FRACTIONS 1.2426E-01 7.5149E-01 1.2426E-01	7.0244E-01 3.3926F+00 ; 1.6481E-01 6.7038E-01 1.6479E-01	GAME U SPECIES E- A	7.2506E-01 1.2973E+01 8.5075E-02 8.2985E-01 8.5074E-02	7.0566E-01 3.8053E+00 - MOLE FRACTIONS 1.5655E-01 6.8691E-01 1.5653E-01	6.9684E-01 3.4300E+00 ;
SPECIE E- A A+ A++	7,3452E-01 1,1699E+01 S	7.1320E-01 3.8102E+00 - MOLE FRACTIONS 1.2426E-01 7.5148E-01 1.2426E-01 2.3548E-06	7.0244E-01 3.3926F+00 3.4926F+00 4.6481E-01 6.7038E-01 1.6479E-01 1.0517E-05	SPECIES E- A A+ A++	7.2506E-01 1.2973E+01 8.5075E-02 8.2985E-01 8.5074E-02 2.5810E-07	7.0566E-01 3.8053E+00 - MOLE FRACTIONS 1.5655E-01 6.8691E-01 1.5653E-01 7.3209E-06	6.9684E-01 3.4300E+00 1.9483E-01 6.1036E-01 1.9478E-01 2.6779E-05
SPECIE: A A+ A++	7.3452E-01 1.1699E+01 S	7.1320E-01 3.8102E+00 - MOLE FRACTIONS 1.2426E-01 1.2426E-01 2.3548E-06 2.3563E-15	7.0244E-01 3.3926F+00 3.3926F+00 4.6481E-01 6.7038E-01 1.6479E-01 1.0517E-05 8.3967E-14	SPECIES - E- A A+ A++ A+++	7.2506E-01 1.2973E+01 8.5075E-02 8.2985E-01 8.5074E-02 2.5810E-07 9.4455E-18	7.0566E-01 3.8053E+00 - MOLE FRACTIONS 1.5655E-01 1.5653E-01 7.3209E-06 3.3554E-14	6.9684E-01 3.4300E+00 1.9488E-01 6.1036E-01 1.9478E-01 2.6779E-05 7.6761E-13
SPECIE E- A A+ A++	7,3452E-01 1,1699E+01 S	7.1320E-01 3.8102E+00 - MOLE FRACTIONS 1.2426E-01 7.5148E-01 1.2426E-01 2.3548E-06	7.0244E-01 3.3926F+00 3.3926F+00 4.648E-01 6.7038E-01 1.6479E-01 1.0517E-05 8.3967E-14 1.9537E-26	GAME U SPECIES E- A A+ A++ A+++	7.2506E-01 1.2973E+01 8.5075E-02 8.2985E-01 6.5074E-02 2.5810E-07 9.4455E-18 4.6658E-34	7.0566E-01 3.8053E+00 - MOLE FRACTIONS 1.5655E-01 6.8691E-01 1.5653E-01 7.3209E-06 3.3554E-14 3.2751E-27	6.9684E-01 3.4300E+00 1.9483E-01 6.1036E-01 1.9478E-01 2.6779E-05 7.6761E-13 1.2273E-24
SPECIE: A A+ A++	7.3452E-01 1.1699E+01 S	7.1320E-01 3.8102E+00 - MOLE FRACTIONS 1.2426E-01 1.2426E-01 2.3548E-06 2.3563E-15	7.0244E-01 3.3926F+00 1.6481E-01 6.7038E-01 1.6479E-01 1.0517E-05 8.3967E-14 1.9537E-26 1.9197E-43	GAME U SPECIES E- A A+ A++ A+++ A+++	7.2506E-01 1.2973E+01 8.5075E-02 8.2985E-01 6.5074E-02 2.5810E-07 9.4455E-18 4.6658E-34 6.1201E-56	7.0566E-01 3.8053E+00 - MOLE FRACTIONS 1.5655E-01 6.8691E-01 1.5653E-01 7.3209E-06 3.3554E-14 3.2751E-27 1.0150E-44	6.9684E-01 3.4300E+00 1.9483E-01 6.1036E-01 1.9478E-01 2.6779E-05 7.6761E-13 1.2273E-24 1.4880E-40
SPECIE A A+ A++ A+++	7.3452E-01 1.1699E+01 S	7.1320E-01 3.8102E+00 - MOLE FRACTIONS 1.2426E-01 7.5148E-01 2.3548E-06 2.3563E-15 2.2529E-29	7.0244E-01 3.3926F+00 3.3926F+00 4.648E-01 6.7038E-01 1.6479E-01 1.0517E-05 8.3967E-14 1.9537E-26	SPECIES E- A A++ A+++ A+++ AV AVI	7.2506E-01 1.2973E+01 	7.0566E-01 3.8053E+00 - MOLE FRACTIONS 1.5655E-01 6.8691E-01 1.5653E-01 7.3209E-06 3.3554E-14 3.2751E-27 1.0150E-44 4.3669E-67	6.9684E-01 3.4300E+00 1.9483E-01 6.1036E-01 1.9478E-01 2.6779E-05 7.6761E-13 1.2273E-24 1.4880E-40 6.3779E-61
SPECIE. E- A A+ A++ A+++ A+++	7.3452E-01 1.1699E+01 S	7.1320E-01 3.8102E+00 - MDLE FRACTIONS 1.2426E-01 7.5148E-01 2.3548E-06 2.3563E-15 2.2529E-29 3.3371E-48 3.1550E-72	7.0244E-01 3.3926F+00 3.3926F+00 4.6481E-01 6.7038E-01 1.6479E-01 1.0517E-05 8.3967E-14 1.9537E-26 1.9197E-43 3.5991E-65 0.	SPECIES E- A+ A++ A+++ A+++ AV AVI	7.2506E-01 1.2973E+01 8.5075E-02 8.2985E-01 6.5074E-02 2.5810E-07 9.4455E-18 4.6658E-34 6.1201E-56 4.5757E-84 0.	7.0566E-01 3.8053E+00 - MOLE FRACTIONS 1.5655E-01 6.8691E-01 7.3209E-06 3.3554E-14 3.2751E-27 1.0150E-44 4.3669E-67	6.9684E-01 3.4300E+00 1.9483E-01 6.1036E-01 1.9478E-01 2.6779E-05 7.6761E-13 1.2273E-24 1.4880E-40 6.3779E-61 3.1734E-88
SPECIE A A+ A++ A+++ A+++ AV	7.3452E-01 1.1699E+01 S	7.1320E-01 3.8102E+00 - MOLE FRACTIONS 1.2426E-01 1.2426E-01 2.3548E-06 2.3563E-15 2.2529E-29 3.3371E-48 3.1550E-72	7.0244E-01 3.3926F+00 1.6481E-01 6.7038E-01 1.6479E-01 1.0517E-05 8.3967E-14 1.9537E-26 1.9197E-43 3.5991E-65	SPECIES E- A A++ A+++ A+++ AV AVI	7.2506E-01 1.2973E+01 	7.0566E-01 3.8053E+00 - MOLE FRACTIONS 1.5655E-01 6.8691E-01 1.5653E-01 7.3209E-06 3.3554E-14 3.2751E-27 1.0150E-44 4.3669E-67	6.9684E-01 3.4300E+00 1.9483E-01 6.1036E-01 1.9478E-01 2.6779E-05 7.6761E-13 1.2273E-24 1.4880E-40 6.3779E-61

2 7				
P1 = 2.	00E+04 N/SQ-M,	US1= 5.20E+0	3.M/SEC	P1 = 2.00E+04 N/Su-M, US1= 5.60E+03 M/SEC
		:		the state of the s
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		STANDING SHUCK	REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
₽ >* 147	3.6652E+02	1.79056+03	2.8439E+03	P 4.3146E+02 2.3410E+03 3.6086E+03
16.	5.1586E+01	.6.4850E+01	7,1068E+01	7 5.4256E+01 6.9069E+01 7.5615E+01
RHD	6.4097E+00	2.28606+01	3.1651E+01	RHD 6.9674E+00 2.7056E+01 3.6418E+01
Maria San	8.5497E+01	1.42376+02	1.7839E+02	H 9.9388E+01 1.6830E+02 2.0799E+02
**	6.4243E+00	7.41786+00	7.9014E+00	A 6.66265+30 7.76855+00 8.28525+00
	1.2877E+00 -	1.3176E+00	1.3548E+00	S 1.3110E+00 1.3491E+00 1.3895E+00
	1.1085E+00	1.2078E+00	1.2643E+00	2 1.1414E+30 1.2528E+00 1.3104E+00
GAME	7.2177E-01	7.0251E-01	6.9484E-01	GAME 7.1684E-01 6.9747E-01 6.9278E-01
	.1.3606E+01	3.80968+00	3.4372E+00"	U 1.4879E+01 3.8276E+00 3.5084E+00
U ;	.1.36082.01	3.8098.00	3.43722.400	3.50842400
그 원 시장				
- 450 150		MOLE FRACTIONS		SPECIES MOLE FRACTIONS
SPECIES		MULE PRACTIONS		SPECIES
المراجعة المساوية	0.70516-03	1 7204F-01	3 00045-01	E- 1.2385E-01 2.0176E-01 2.3688E-01
	9.7851E-02	1.7204E-01	2.0904E-01	
■ ₁ ,	: ,8.0430£-01	6.5594E-01	5.8197E-01	A 7.5231E-01 5.9651E-01 5.2633E-01
■●	9.7850€-02	1.72018-01	2.0895F-01	A+ 1.2385E-01 2.0170E-01 2.3669E-01
494	4.5617E-07	1.2049E-05	4.1095E-05	A++ 1.2324E-06 2.9905E-05 9.4508E-05
8074	3.41796-17	1.0868E-13,	2.12835-12	A+++ 3.2372E-16 9.4056E-13 1.5598E-11
80000	5.1630E-33	. 2.9638E-26	8.24426-24	A++++ 3-2703E-31 1.6865E-24 3.3814E-22
AV	. 3.1916E-54	. 3.52116-43	3.15216-39	AV 2.2841E-51 2.3383E-40 1.2113E-36
AVA	3.2371E-81 .	. 8.2175E-65	5.5838E-59	AVI: 4.1509E-77 1.1691E-60 3.4428E-55
Avil	. .	1.4399E-94	1.9473E-85	AVII 0. 7.0530E-88 5.6285E-80
HIVA	0.	0.	0.	AVIII 0. 0. 0.
				13.7/
5 -				
5.4			•	<u>.</u>
8 9 C 2 C		19 4		•
, i				the contract of the contract o
	DOE+O4 N/SU-M.	USI = 5.40E+0	3 M/SEC	P1 = 2.00E+04 N/SQ-M, US1= 5.80E+03 M/SEC
	302,101 117 117	, 031 3.102;0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	32 33002.33 11, 320
	•			
7. 42	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
41. 6	3.9820E+02	2.0538E+03		P 4.6559E+02 2.6441E+03 4.0295E+03
	5.2940E+01	6.6951E+01	7.3295E+01	200 1000 1000
RHD	6.6883E+00	2.4937E+01	3.4013E+01	T 5.5532E+J1 7.1177E+O1 7.7993E+O1 RHO 7.2363E+OO 2.9130E+O1 3.8734E+O1
KMD				
27	9.2306E+01.	1.5505E+02	1.9282E+02	1000000
	6.54305+30	7.5916E+00	8.0882E+00	
5 :	1.2992E+00	1.3331E+00	1.371 9E+00	
و و از از المعدد الله و ا	1.1246E+00	1.2301E+00	1.2871E+00	2 1.15865+00 1.2753E+00 1.3338E+00
GANE	7.1908E-01	6.9977E-01		GAME 7.1495E-C1 6.9574E-01 6.9300E-01
(U % Section	1.4238E+01	3.8062E+00	3.4704E+00	U 1.5505F+01 3.8553E+00 3.5529E+00
* _k			and the second second	
SPECIFS		MOLE FRACTIONS		SPECIES NOLE FRACTIONS
E =	.1.1079E-01	1.8708E-01	2.2307E-01	E- 1.3692E-01 2.1587E-01 2.5027E-01
A 2. 1	7.7843E-01	6.2585E-Q1	5.53926-01	A 1.2617E-01 -5.6831E-01 > 4.9960E-01
A •	1.1079E-01	1.8704E-01	2.2295E-01	A+ 1.3691E-01 2.1578E-01 2.4999E-01
400	7.6535E-07	1.9205E-05	6.2495E-05	A++ 1.9133E-06 4.5415E-05 2.1.4148E-04.2
4000	1.1010E-16	3.2819E-13	5.7919E-12	A+++ 8.8248E-16 2.5464E-12 4.1062E-11
	4.5057E-32	2.3540E-25.	5.3385E-23	A++++ 2.1156E-30 1.0839E-23 2.0447E-21
AM	1.0214E-52	9.9215E-42	6.2983E-38	AV 4.6843E-50 4.6229E-39 2.1520E-35
AVI				10-11-11-11-11-11-11-11-11-11-11-11-11-1
	.5.31148-79	1.1333E-62	4.5162F-57	
Avai	.5.3114E-79	1.1333E-62 8.8281F-91	4.5162E-57	
Avel	0.	8.8281E-91	1.0930E-82	AVII 0. 3.8549E-85 2.4245E-77
AVEL				

	•	•						
					•			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	5.0088E+02	2.9685E+03	4.4775E+03		P	5.7517E+02	3.6805E+03	5.4634E+03
T	5.6780E+01	7.3319E+01	8.0482E+01		T	5.9216E+01	7.7782E+01	8.5950E+01 {
RHO	7.4984E+00	3.1193E+01	4.0980E+01		RHO .	8.004QE+00	3.5209E+01	4.5179E+01
н	1.1426E+02	1.9592E+02	2.3971E+02		H	1.3014E+02	2.2544E+02	2.7391E+02
A	6.9028E+00	8.1303E+00	8.7095E+00		A	7.1468E+00	8.5206E+00	9.2034E+00
2	1.3356E+00	1.3821E+00	1.4255E+00		S	1.3612E+00	1.4163E+00	1.4627E+00
Ž.	1.1764E+00	1.2980E+00	1.35768+00		2	1.2135E+00	1.3439E+00	1.4070E+00
SAME .	7.1333E-01	6.9460E-01	6.9424E-01		GAME	7.1078E-01	6.9452E-01	7.0044E-01
(1	1.6127E+01	3.8829E+00	3.6047E+00		GARE.	1.7366E+01	3.9610E+00	3.7356E+00
•	, 1101212101	3.0027.	3480415400		•		, 5. 70202-00	3673302.00
SPECIE	s	- MOLE FRACTIONS			SPEC LE	s	- MOLE FRACTIONS	
	• •				• • • • • • • • • • • • • • • • • • • •			_
E~	1.4998E-01	2.2956E-01	2.6341E-01		E-	1.7595E-01	2.55916-01	2.8925E-01
A -	7.0005E-01	5.4095E-01	4.7340E-01		A	6.4810E-01	4.8833E-01	4.2199E-01
A+	1.4997E-01	2.2942E-01	2.6298E-01		A+	1.7594E-01	2.5561E-01	2.8829E-01 🤼
A++	2.8838E-06	6.7940E-05	2-1145E-04		A++	6-1078E-06	1.4815E-04	4.7920E-04
A+++	2.2527E-15	6.6685E-12	1.0785E-10		A+++	1.2609E-14	4.3223E-11	7.7358E-10
A++++	1.2019E-29	6.5320E-23			A++++	2.9232E-28	2.1151E-21	4.6802E-19
AV	7.5511E-49		1.2271E-20		AV	1.2382E-46	2.1443E-35	1.2397E-31
		8.2251E-38	3.7686E-34					
AVI	2.3905E-73	6.3429E-57	1.5403E-51		IVA	4-2076E-70	2.1918E-53	7.2201E-48
AVII	0.	1.6909E-82	1.0213E-74	_	IIVA	0.	2.0883E-77	1.8347E-69
IIIVA	0.	0.	0.		IIIVA	. 0.	0.	0.
						,	•	4
		*	• •					4.0
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	•				4 0			•
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	1							
P1 =	2.00E+04 N/SQ-M	, US1= 6.20E+0	3 M/SEC '		P1 =	2.00E+04 N/SQ-M	, US1= 6.60E+0	3 M/SEC
		• '	•		•			•
•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
٥	5.37426+02	3.3140E+03	4.95568+03		P	6.1413E+02	4.0662E+03	6.0016E+03."
7	5.8006E+01	7.5514E+01			7	6.0414E+01	8.0139E+01	8.8982E+01
RHO	7.7547E+00		8.3123E+01				3.7108E+01	4.7086E+01
		3.3226E+01	4.3140E+01	•	RHD,	8.24598+00		
H	1.22086+02	2.1045E+02	2.5649E+02		н	1.3847E+02	2.40886+02	2.9202E+02
Ą	7.0243E+00	8.3208E+00	8.945 BE +00		Ą	7.2707E+00	8.7317E+00	9.4832E+00
<u>s</u> ,	1.34826+00	1.3991E+00	1.4440E+00		5 -	1.3744E+00	1.4338E+00	1.4815E+00
Z	1.19476+00	1.3208E+00	1.381 9E+00		Z	1.23286+00	1.3673E+00	1.4324E+00 -
GAME	7.l196E-01	6.9416E-01	6.9667E-01		GAME	7.0979E-01	6.9581E-01	7.0555E-01
U	1.67475+01	3.9195E+00	3.6651E+00		v	1.7982E+01	4.0137E+00	3,81806+00
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SPECIE	s	- MOLE FRACTIONS		•	SPEC 1E	s	MOLE FRACTIONS	·
E	1.6300E-01	2.4289E-01	2.7638E-01	*	E	1.8881E-01	2.6864E-01	3.01 89E-01*
Α ,	6.7401E-01	5.1432E-01	4.4755E-01		A	6.2239E-01	4.6293E-01	3.9694E-01 4
40.	1.6299E-01	2.4269E-01	2.7575E-01		A+	1.8879E-01		3.0044E~01
A++ '	4-2405E-06	1.0063E-04	3-1720E-04		A++	8.6398E-06	2.1747E-04	7.2860E-04
A+++	5.4398E-15	1.7090E-11	2.8627E-10		A+++	2.7990E-14	1.0872E-10	2.1277E-09
A++++	6.0816E-29	3.7716E-22	7.4754E-20		A++++	1.2653E-27	1.1708E-20	3.0189E-18
AV	9.5682E-48	1.36478-36	6.7190E-33		AV	1.2298E-45	3. 2971E-34	2.3960E-3023
AVI .	8.0630E-72	3.9095E-55	1.03688-49		AVI .	1.0504E-68	1.1965E-51	5-4040E-46
AVII	0.00302-72	6.4861E-80	4.3006E-72		AVII	0.	6.6156E-75	8.8331E-67
								7.7685E-92
IIIVA	0.	0.	مه	•	IJIVA	0.	0.	1-10035-45

'br =	2.00E+04 N/34-H	, 021= 0.80E+C	13 M/SEC	P1 = ·2•	DOE+04 W128-W	1. 021= 1.50E+0	13 H/SEC
			0551 56350 611064		wayting Sugar	STANDING SUGER	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		HOVING SHOCK		REFLECTED SHOCK
P	6.5429E+02	4.4767E+03	6.5709E+03	Р '	7.3820E+02.	5.3419E+03	7.80448+03
T	6.1606E+01	8.2625E+01	9.2329E+01		6.3983E+01	8.8020E+01	9.9951E+01
RHO	8.4800E+00	3.8948E+01	4.8765E+01	RHO	8.9226E+00	4.2145E+01	5.1508E+01
н	1.4704E+02	2.5684E+02	3.1085E+02	н	1.6495E+02	2.9000E+02	3.5079E+02
A	7.3961 €+00	8.9579E+00	9.7955E+00	A ·	7.6528E+00	9.4615E+00	1.0492E+01
Š	1.3879E+00	1.4515E+00	1.5009E+00	S	1.4155E+00	1.4871E+09	1.5399E+00
ž	1.2524E+00."	1.3911E+00	1.4594E+00	Ž	1.2931E+00	1.4400E+00	1.5159E+00
GAME	7.0897E-01	6.9813E-01	7.1209E-01	GAME	7.0787E-01	7.0627E-01	7.2653E-01
11	1.8596E+01	4.0531E+00	3.9145E+00	Ü	1.9819E+01	4.1991E+00	4.1558E+00
•	1.07702.01	4003516100			11,01,11.01	4.17710.00	44,13302.400
SPECIE	ES	- MOLE FRACTIONS		SPECIÈS		- MOLE FRACTIONS	
-						• • •	
E	2.01566-01	2.8115E-01	3.1479E-01	E-	2.2664E-01	3.0556E-01	3.4033E-01
Α .	5.9690E~01	4.3803E-01	3.7155E-01	Α .	5.4675E-01	3.8958E-01	3.2212E-01
A+ ,	2.0153E-01	2.8051E-01	3.1253E-01	A+	2.2659E-01	3.0417E-01	3.3477E-01
A++	1.2040E-05	3.1982E-04	1.1290E-03	A++ *	. 2.2536E-05	6.9799E-04.	2.7809E-03
A+++	6.0393E-14	2.7511E-10	6.13 <i>2</i> 9E-09	A+++	2.5869E-13	1.8042E-09	5.4780E-08
A++++	. 5.3102E-27	6.5270E-20	2.1120E-17	A++++	7.8268E-26	2.0908E-18	. 1.1693E-15
AV	1.2630E-44	5.0952E-33	5.2345E-29	AV	9.1960E-43	1.2559E-30	2-9918E-26
AVI "	3.6316E-67	6.5111E-50	4.7972E-44	IVA	1.9049E-64	1.9792E-46	4.8065E-40
AVII	3.	2.03576-72	5.3381E-64	AVII	0.	1.9284E-67	2.61476-58
TIIVA		0.	4.3916E-88	AVIII	0.	9.1167E-93	1.9645E-80
*****			1033102 90	77.1	••	7,11012 /3	11,7045
						•	
	,					-	
	2.00E+04 N/SQ-N	. US1= 7.00E+0	2 4/556	n1 - 1 '	DOE+04 N/SQ-M		
P.1 =.	2.00E+04 N/34-A	031=.7.005+0	13 M/SEC .	P1 = 2.0	JUE+04 M/54-M	. US1= 7.40E+0	3 M/SEC
_	**						· .
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		OVING SHUCK	STANDING SHOCK	REFLECTED SHOCK
P	6.9565E+02	4.9008E+03	7.1709E+03.	P	7.8193E+02	5.7969E+03	8-4607E+03
Ť	6.2794E+01	8.5239E+01	9.5952E+01	τ	6.5178E+31	9. 39878+01	1.0408E+02
RHD	8.7057E+00	4.0623E+01	5.0261E+01	RHO	9.1302E+00	4.3481E+01	5.2643E+01
н	1.55875+02	2.7320E+02	3.30395+02	н	1.74285+02	3.0723E+02	3.7160E+02
, , , , , , , , , , , , , , , , , , ,	7.5234E+00	9.2301E+00	1.0131E+01	A	7.7846E+00	9.7428E+00	1.0845E+01
Š	1.4016E+00	1.46936+00	1.52016+00		1.42965+00	1.50506+00	
	1.2725E+00		1.4869E+00	ž.			1.5588E+00
Z		1.4153E+00			1.3140E+00	1.4652E+00	1.5441E+00
GAME	7.0833E-01	7.0161E-01	7.1937E-01	GAME	7.0760E-01	7.1200E-01	7.3179E-01
· U	1.9209E+01	4-1211E+00	4.0240E+00	U	2.34288+01	4.2943E+00	4.2753E+00
			•				· • •
SPECIE	ES	- MOLE FRACTIONS		SPEC 1ES		- MOLE FRACTIONS	
E-	2.1417E-01	2.9344E-01	3.2747E-01	E-	2.3895E-31	3.1752E-01	3.5238E-01
Δ :	5.7168E-01	4.1359E-01	3.4681E-01	A	5.22145-01	3.6600E-01	2.9954E-01
A+ -	2.1413E-01	2.9250E-01	-3.2395E-01	A+	2.3889E-01	3.1544E-01	3.4379E-01
A++	1.6561E-05	4.7126E-04	1.7604E-03	A++	3.0383E-05	1.0396E-03	
A+++	1.2624E-13	6.9979E-10	1.8306E-08	A+++ :	5.1830E-13	4.7218E-09	1.5889E-07
****	2.05965-26	3.6568E-19	1.5233E-16	A++++	2.81106-25	1.2249E-17	8.2409E-15
WAAAA.	1.0638E-43	7.8959E-32	1.19416-27	AV · ·	6.9114E-42	2.07126-29	6.5583E-25
AV '		3.5379E-48		AVI			
AVI	. 7.4664E-66		4.5010E-42		3.4316E-63	1.1677E-44	4.23738-38
AVII	0.	6.1948E-70	3.4347E-61	AVII	5.0737E-92	6. 5265E-65	1.5164E-55
AVIŢI	o.	0.	2.6482E-84	AVIII	J.	2.3801E-89	1.01778-76

P1 - 20 KN/ m2

P1 =	2.00E+04 N/SQ-M	, US1= 7.60E+0	3 M/SEC	P1 = 2	.00E+04 N/SQ-M	, US1= 8.00E+0	3 M/SEC
	•	•					
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ`.	8-2684E+02	6.2656E+03	9.1462E+03	P	9.2044E+02	7.2450E+03	1.0605E+04
ī	6.6383E+01	9.4163E+01	1.0843E+02	ŕ	6.8842E+01	1.0111E+02	1.1736E+02
RHO	9.3280E+00	4.4628E+01	5.3631E+01	RHO	9.6952E+00	4.6432E+01	5.53996+01
H	1.8386E+02	3.2488E+02	3.9314E+02	H	2.0380E+02	3.6156E+02	4.3838E+02
Ä	7.9193E+00	1.0043E+01	1.1191E+01	Ä	8.1990E+09	1.0676E+01	1.1842E+01
S .	1.4440E+00	1.5229E+00	1.5777E+00	ŝ.	1.473ZE+30	1.5581E+00	1.6157E+00
ž.	1.3353E+00	1.4910E+00	1.5728E+00	ž	1.3791E+00	1.5432E+00	1.6310E+00
GAME	7.0753E-01	7.1846E-01	7.3444E-01	GAME	7.0808E-01	7.3047E-01	7.3258E-01
Ü	2.1034E+01	4.4014E+00	4.4075E+00	Ü	2.2247E+01	4.6528E+00	4.6932E+00
SPEC 1E	s	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	
	3 51005-01	7 20205-01	7 44105-01	£-	3. 74075-01	3 61005-01	3.8689E-01
E-	2.5109E-01 4.9785E-01	3.2930E-01 3.4296E-01	3.6419E-01 2.7814E-01	7	2.7487E-01 4.5033E-01	3.5199E-01 2.9949E-01	2.39916-01
Ä+	2.5101E-01	3.2619E-01	3.51156-01	, A A+	2.74738-01	3.4505E-01	3.5952E-01
A++ .	4.0661E-05	1.5564E-03	6.5221E-03	A++	7.1623E-05	3.4723E-03	1.3681E-02
A+++	1.0247E-12	1.2534E-08	4.4681E-07	A+++	3.8606E-12	8. 8346E-08	2.8932E-06
A++++	9.9511E-25	7.33876-17	5.5040E-14	A++++	1.1466E-23	2.6238E-15	1.7329E-12
AV	5.2628E-41	3.5199E-28	1.3230E-23	AV	2.5380E-39	1.0031E-25	3.1415E-21
AVI .	6.97446-62	7.1362E-43		ÄVI	1.91386-59	2.5933E-39	9.3989E-33
AVII	5.3908E-90	2.2785E-62	7.4199E-53	AVII	1.4489E-86	2.61796-57	5.8780E-48
AVIII	J. 3 70 0E - 70	6.2837E-86	4.2057E-73	AVIII	0.	3.9868E-79	1.6055E-66
		0.205.2 00	40203.6 13		••	30 30002 11	2000372 00
P1 =	2.00E+04 N/SQ-M	. US1= 7.80E+0	3 M/SEC	P1 = ;	2.00E+04 N/SQ-N	, US1≈ 8.20E+(93 M/SEC
P1 =		,		P1 = ;			
P1 =	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK	STANDING SHOCK 6.7562E+03	REFLECTED SHOCK 9.8720E+03	P	MDVING SHOCK 4.6867E+02	STANDING SHOCK 7.7424E+03	REFLECTED SHOCK 1.1358E+04
P T	MDVING SHOCK 8.7336E+02 6.7606E+01	STANDING SHOCK 6.7562E+03 9.7591E+01	REFLECTED SHOCK 9.8720E+03 1.1293E+02	P T	MOVING SHOCK 9.6867E+02 7.0102E+01	STANDING SHOCK 7.7424E+03 1.0489E+02	REFLECTED SHOCK 1.1358E+04 1.2166E+02
P T RHO	MDVING SHOCK 8.7336E+02 6.7606E+01 9.5198E+00	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01	P T RHO	MDVING SHDCk 9.6867E+02 7.0102E+01 9.8593E+00	STANDING SHOCK 7.7424E+03 1.0489E+02 4.708E+01	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01
P T RHO H	MOVING SHOCK 8.7336E+02 6.7606E+01 9.5198E+00 1.9372E+02	STANUING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02	P T RHO H	MDVING SHOCK 9.6867E+02 7.0102E+01 9.8593E+00 2.1414E+02	STANDING SHOCK 7.7424E+03 1.0489E+02 4.708E+01 3.8040E+02	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02
P T RHO H	MOVING SHOCK 6.7336E+02 6.7606E+01 9.5198E+00 1.9372E+02 8.0575E+00	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01	P T RHD H	MDVING SHDCK 9.6867E+02 7.0102E+01 9.8593E+00 2.1414E+02 8.3447E+00	\$TANDING SHOCK 7.7424E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.0997E+01	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01
P T RHO H A S	MOVING SHOCK 8.7336E+02 6.7606E+01 9.5198E+00 1.9372E+02 8.0575E+00 1.4585E+00	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+03	REFLECTED SHUCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+01 1.5968E+01	P T RHO H A S	MDVING SHOCK 9.6867E+02 7.0102E+01 9.8593E+00 2.1414E+02 8.3447E+00 1.4881E+00	STANDING SHOCK 7.7424E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.0997E+01 1.5759E+00	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00
P T RHO H A S	MOVING SHOCK 8.7336E+02 6.7606E+01 9.5198E+00 1.9372E+02 8.0575E+00 1.4585E+00 1.3570E+00	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+00 1.5173E+00	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01 1.5968E+00 1.6020E+00	P T RHO H A S	MOVING SHOCK 9.6867E+02 7.0102E+01 9.8593E+00 2.1414E+02 8.3447E+00 1.4881E+00 1.4015E+00	\$TANDING \$HOCK 7.7424E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.9997E+01 1.5759E+00 1.5703E+00	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00
P T RHO H A S	MOVING SHOCK 8.7336E+02 6.7606E+01 9.5198E+00 1.9372E+02 8.0575E+00 1.4585E+00	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+03	REFLECTED SHUCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+01 1.5968E+01	P T RHO H A S	MDVING SHOCK 9.6867E+02 7.0102E+01 9.8593E+00 2.1414E+02 8.3447E+00 1.4881E+00	STANDING SHOCK 7.7424E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.0997E+01 1.5759E+00	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00
P T RHO H A S Z GAME	MOVING SHOCK 8.7336E+02 6.760bE+01 9.5198E+00 1.9372E+02 8.0575E+00 1.4585E+00 1.35706E+01 2.1649E+01	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+00 1.5173E+00 7.2502E-01	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E-01 4.5488E+00	P T RHD H A S Z GAME	MDV ING SHDCK 9.6867E+02 7.0102E+01 9.8593E+30 2.1414E+02 8.3447E+00 1.4015E+00 7.0875E-01 2.2843E+01	STANDING SHOCK 7.7424E03 1.0489E02 4.7008E03 3.8040E02 1.0997E01 1.5759E00 1.5703E00 7.3423E01	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3028E-01 4.8366E+00
P T RHO H A S Z GAME U	MOVING SHOCK	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+02 1.5173E+00 7.2502E+01 4.5222E+00	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E-01 4.5488E+00	P T RHD H A S Z GAME U	MDVING SHDCK 9.6467E+02 7.0102E+01 9.8593E+30 2.1416E+02 8.3447E+00 1.4881E+00 1.4015E+00 7.2875E-01 2.2843E+01	STANDING SHOCK 7.7424E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.9997E+01 1.5759E+00 1.5703E+00 7.3423E-01 4.7962E+00	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3028E+01 4.8366E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+00 1.5173E+00 7.2502E-01 4.5222E+00	REFLECTED SHUCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E+01 4.5488E+00	P T RHD H A S Z GAME U SPECIES	MDV ING SHDCK 9.6867E+02 7.0102E+01 9.8393E+30 2.1414E+02 8.3447E+00 1.4881E+00 1.4015E+00 7.2875E-01 2.2843E+01	STANDING SHOCK 7.7624E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.0997E+01 1.5759E+00 1.5703E+00 7.3423E-01 4.7962E+00	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3028E+01 4.8366E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 8.7336E+02 6.7606E+01 9.5198E+00 1.9372E+02 8.0575E+00 1.4585E+00 7.0768E-01 2.1649E+01 S 2.6308E-01 4.7389E-01	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+00 7.2502E-01 4.5222E+00 - MOLE FRACTIONS 3.4095E-01 3.2044E-01	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1500E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E-01 4.5488E+00	P T RHD H A S Z GAME U SPEC LE:	MDV ING SHOCK 9.6867E+02 7.0102E+01 9.8593E+00 2.1414E+02 8.3447E+00 1.4015E+00 7.0875E-01 2.2843E+01	\$TANDING \$HOCK 7.7424E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.0997E+01 1.5759E+00 7.3423E-01 4.7962E+00 	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3928E-01 4.8366E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+00 1.5173E+00 7.2502E+01 4.5222E+00 - MOLE FRACTIONS 3.4095E-01 3.2044E-01	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E+01 4.5488E+00	P T RHD H A S Z GAME U SPECIE:	MOVING SHOCK 9.6867E+02 7.0102E+01 9.8593E+30 2.1414E+02 8.3447E+00 1.4881E+00 1.4015E+01 2.2843E+01 2.8648E-01 4.2713E-01 2.8629E-01 2.8629E-01	STANDING SHOCK 7.7424E403 1.0489E402 4.7008E401 3.8040E402 1.0997E401 1.5759E400 1.5703E400 7.3423E-01 4.7962E400	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3028E-01 4.8366E+00
P T RHO H A S Z GAME U SPECIE E-A A & A & A & A & A & A & A & A & A & A	MOVING SHOCK	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+00 1.5173E+00 7.2502E-01 4.5222E+00 - MOLE FRACTIONS 3.4095E-01 3.2044E-01 2.3435E-01 2.3435E-01	REFLECTED SHUCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E-01 4.5488E+00 3.7576E-01 2.5813E-01 3.5646E-01 9.6518E-03	P T RHD H A S Z GAME U SPECIES	MDV ING SHOCK 9.6867E+02 7.0102E+01 9.8593E+00 2.1414E+02 8.3447E+00 1.481E+00 1.4015E+00 7.2875E-01 2.2843E+01	STANDING SHOCK 7.7624E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.0997E+01 1.5759E+00 1.5703E+00 7.3423E-01 4.7962E+00	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3028E-01 4.8366E+00 3.9742E-01 2.2368E-01 3.6040E-01 1.8501E-02
P T RHO H A S Z GAME U SPECIE E- A A+++	MOVING SHOCK 8.7336E+02 6.7606E+01 9.5198E+00 1.9372E+02 8.0575E+00 1.4585E+00 7.0768E-01 2.1649E+01 \$ 2.6308E-01 4.7389E-01 2.6297E-01 5.4115E-05 2.0004E-15	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+00 7.2502E-01 4.5222E+00 - MOLE FRACTIONS 3.4095E-01 3.2044E-01 3.3626E-01 2.3435E-03 3.3862E-03	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1500E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E-01 4.5488E+00 3.7576E-01 2.5813E-01 3.5646E-01 9.6518E-03 1.1921E-06	P T RHD H A S L GAME U SPEC LE: A A+ A++ A+++	MDV ING SHDCK 9.6467E+02 7.0102E+01 9.8593E+30 2.1416E+02 8.3447E+00 1.4881E+00 1.4015E+00 7.2875E-01 2.2843E+01 2.8648E-01 2.8629E-01 9.4484E-05 7.4113E-12	\$TANDING \$HOCK 7.7424E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.997E+01 1.5759E+00 7.3423E-01 4.7962E+00	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3028E+01 4.8366E+00 3.9742E+01 2.2368E+01 3.6040E+01 1.8501E+02 6.2252E+06
P T RHO H A S Z GAME U SPECIE E-A A++++++	MOVING SHOCK	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+00 1.5173E+00 7.2502E-01 4.5222E+00 - MOLE FRACTIONS 3.4095E-01 3.2046E-01 2.3435E-03 3.3862E-08 4.5324E-10	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E-01 4.5488E+00	P T RHD H A S Z GAME U SPEC LE: E- A A+ A++ A+++	MOVING SMOCK 9.6867E+02 7.0102E+01 9.8393E+30 2.1414E+02 8.3447E+00 1.4015E+00 7.3875E-01 2.2843E+01 2.8648E-01 4.2713E-01 2.8629E-01 9.4484E-05 7.4113E-12 3.6298E-23	STANDING SHOCK 7.7624E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.0997E+01 1.5759E+00 1.5703E+00 7.3423E-01 4.7962E+00	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3028E-01 4.8366E+00 3.9742E-01 2.2368E-01 1.8501E-02 6.3252E-06 7.4443E-12
P T RHO H A S Z GAME U SPECIE E-A A+++ A++++ A++++ A++++ A++++ A++++ A+++++ A+++++ A++++++	MOVING SHOCK	STANDING SHOCK 6.7562E+03 9.759IE+01 4.5626E+01 3.4313E+02 1.036IE+01 1.5408E+00 7.2502E-01 4.5222E+00 - MOLE FRACTIONS 3.4095E-01 3.2044E-01 3.362E-08 4.5324E-16 6.2615E-27	REFLECTED SHUCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E+01 4.5488E+00	P T RHD H A S Z GAME U SPEC LES E- A A+ A++ A+++ A+++	MDV ING SHOCK 9.6867E+02 7.0102E+01 9.8593E+00 2.1414E+02 8.3447E+00 1.488E+00 1.4015E+00 7.2875E-01 2.2843E+01 3.28648E-01 4.2713E-01 2.8629E-01 9.4484E-05 7.4113E-12 3.8298E-23 1.7503E-38	STANDING SHOCK 7.7624E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.0997E+01 1.5759E+00 1.5703E+00 7.3423E-01 4.7962E+00 3.6318E-01 2.7878E-01 3.5289E-01 5.1482E-03 2.3199E-07 1.5365E-14 1.6346E-24	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3028E-01 4.8366E+00 3.9742E-01 2.2368E-01 3.6040E-01 1.8501E-02 6.3252E-06 7.4443E-12 3.2036E-20
P T RHO H A S Z GAME U SPECIE E-A A++++++ A+++++ AVI	MOVING SHOCK	STANDING SHOCK 6.7562E+03 9.7591E+01 4.5626E+01 3.4313E+02 1.0361E+01 1.5408E+00 1.5173E+00 7.2502E+01 4.5222E+00 - MOLE FRACTIONS 3.4095E-01 3.2046E-01 2.3435E-03 3.3862E-08 4.5324E-16 6.2615E-27 4.6505E-21	REFLECTED SHOCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E-01 4.5488E+00 3.7576E-01 2.5813E-01 3.5646E-01 9.6518E-03 1.1921E-06 3.3574E-13 2.3207E-22 2.1263E-34	P T RHD H A S Z GAME U SPEC LE: A A A A A A A A A A A A A A A A A A A	MDV ING SMDCA 9.6467E+02 7.0102E+01 9.8593E+30 2.141EE+02 8.3447E+00 1.4881E+00 1.4015E+01 2.2843E+01 2.8648E+01 4.2713E-01 2.8629E-01 9.4484E-05 7.4113E-12 3.6298E-23 1.7503E-38 3.3389E-58	STANDING SHOCK 7.7424E403 1.0489E402 4.7008E401 3.8040E402 1.9997E401 1.5759E400 1.5703E400 7.3423E-01 4.7962E400	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3028E-01 4.8366E+00 3.9742E-01 2.2368E-01 3.6040E-01 1.8501E-02 6.3252E-06 7.4443E-12 3.2036E-20 2.7748E-31
P T RHO H A S Z GAME U SPECIE E-A A+++ A++++ A++++ A++++ A++++ A++++ A+++++ A+++++ A++++++	MOVING SHOCK	STANDING SHOCK 6.7562E+03 9.759IE+01 4.5626E+01 3.4313E+02 1.036IE+01 1.5408E+00 7.2502E-01 4.5222E+00 - MOLE FRACTIONS 3.4095E-01 3.2044E-01 3.362E-08 4.5324E-16 6.2615E-27	REFLECTED SHUCK 9.8720E+03 1.1293E+02 5.4570E+01 4.1560E+02 1.1526E+01 1.5968E+00 1.6020E+00 7.3438E+01 4.5488E+00	P T RHD H A S Z GAME U SPEC LES E- A A+ A++ A+++ A+++	MDV ING SHOCK 9.6867E+02 7.0102E+01 9.8593E+00 2.1414E+02 8.3447E+00 1.488E+00 1.4015E+00 7.2875E-01 2.2843E+01 3.28648E-01 4.2713E-01 2.8629E-01 9.4484E-05 7.4113E-12 3.8298E-23 1.7503E-38	STANDING SHOCK 7.7624E+03 1.0489E+02 4.7008E+01 3.8040E+02 1.0997E+01 1.5759E+00 1.5703E+00 7.3423E-01 4.7962E+00 3.6318E-01 2.7878E-01 3.5289E-01 5.1482E-03 2.3199E-07 1.5365E-14 1.6346E-24	REFLECTED SHOCK 1.1358E+04 1.2166E+02 5.6259E+01 4.6172E+02 1.2142E+01 1.6340E+00 1.6595E+00 7.3028E-01 4.8366E+00 3.9742E-01 2.2368E-01 3.6040E-01 1.8501E-02 6.3252E-06 7.4443E-12 3.2036E-20

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				•	-		
	MOVING SHOCK	STANDING SHOCK			MOATUR SHOCK		REFLECTED SHOCK
TAME.	1.0179E+03	8.2479E+03	1.21236+04	P	L.1202E+03	9.2960E+03	1.3710E+04
	7.1391E+01	1.0876E+02	1.2578E+02	T .	7.4086E+01	1.1634E+02	1.3382E+02
RHD '	1.00116+01	4.7473E+01	5.7104E+01	RHO	1.0279E+01	4.8446E+01	5.8658E+01
Η	2.24725+02	3.9963E+02	4.8542E+C2	н '	2.4666E+02	4.3954E+02	5.3461E+02
A	8.4950E+00	1.1305E+01	1.2435E+01	A	8-8130E+00	1.1860E+01	1.3032E+01
ŝ	1.5031E+00	1.5936E+00	1.6521E+00	Š	1.5335E+00	1.6273E+00	1.6886E+00
ž	1.4243E+00	1.5975E+00	1.6878E+00	ž		1.6494E+00	
					1.4710E+00		1.7466E+00
GAME	7.0971E-01	7.3560E-01	7.2833E-01	GAME	7.1269E-01	7.3299E-01	7.2661E-01
υ, ;	2.3434E+01	4.9417E+00	4.9705E+00	V	2.4617E+01	5.2303E+00	. 5.2369E+00
3							
SPECIES		- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
		-					
E-	2.9791E~01	3.7400E-01	4.0752E-01	€-	3.20198-01	3.9370E-01	4-2746E-01
A	4.0431E-01	2.5946E-01	2.0899E-01	A	3.5984E-01	2.2672E-01	1.8212E-01
A+	2.9766E-01	3.5906E-01	3.5948E-01	4+	3.1976E-01	3.6545E-01	. 3.5340E-01
A++	1.2434E-04	7.4724E-03	2.3999E-02	A++	2.1516E-04	1.4121E-02	3.6970E-02
A+++				4+++			
	1.41455-11	5.8284E-07	1.2596E-05	Ä++++	5.1757E-11	2.8996E-06	4.1148E-05
A++++	1.2539E~22	8.3226E-14	2.71305-11		1.3677E-21	1.6060E-12	?.5712E-10
AV	1.1350E-37	2.35888-23	2.5326E-19	AY.	5.0918E-36	2.5684E-21	9.4177E-18
AVI	4.8889E~57	7.0971E-36	5.6914E-30	IVA	1.2359E-54	6.4515E-33	. 1.1434E-27
AVEL 7	4.2626E~83	1.9659E-52	5.2870F-44	1 I VA	1.38576-79	3.0934E-48	1-0043E-40
AVILL	0.	1.4058E-72	3.3651E-61	I I IVA	`o.	6.1067E-67.	8.8520E-57
		•				•	
1.3			•				
01 - 2	.00E+04 N/SU-M	. US1= 8.60E+0	3 H/CTC	01 -	3 005 00 11450 11		
P1 - 2	************	. 021= 0.005+0	3 M/SEC	P1 - 4	2.00E+04 N/SU-M	• US1= 9.30E+0	3 M/SEC
			•				•
		STANDING SHOCK	REFLECTED SHOCK	_	MOVING SHOCK	STANDING SHOCK	
P	1.06865+03	8.7744E+03	1.29256+04	P	1.1729E+03	9-8328E+03	1 • 451 4E +04
fr.	7.26955+01	1-1255E+02	1.29926+02	Ţ	7.5534E+31	1.2007E+32	1.3764E+02
RHO	1.0159E+01	4.8030E+01	5.79305+01	RHO	1.0392E+01	4.8870E+01	5.9366E+C1
H 3.7%	2.3557E+02	4.1940E+02	. 5.0995E+02	н -	2.5800E+02	4.6015E+02	5.5980E+02
A **	8.6479E+30	1.1587E+01	1.2736E+01	A	8.9819E+00	1.21256+01	1.3331E+01
s	1.5179E+00	1.6103E+0C	1.67065+00	· s	1.54885+30	1.6443E+00	1.7066E+00
ž	1.4470E+00	1.6231E+00	1.71736+00	ž	1.4948E+00	1.6757E+00	1.7763E+00
GANE	7.1098E-01	7.3490E-01	7.2705E-01	GAME -	7.1478E-01		
	2.4029E+01	5.0877E+00		U		7.3068E-01	7.2692E-01
U , '	2.40276401	3.00115400	5.1140F+00	U	2.5204E+01	5.3652E+00	5.3597E+00 ·
6.00		•					•
SPECIES		- MOLE FRACTIONS		SPECIES	5	- MOLE FRACTIONS	
E							
_	3.0889E~31	3.83916-01	4.1771E-01	£-	3.3103E-01	4.0322E-01	4.3704E-01
Ā	3.8238E-01	3.8391E-01 2.4260E-01	4.1771E-01 1.9495E-01	E- A	3.3103E-01 3.3822E-01	4.0322E-01 2.1214E-01	4.3704E-01 1.7006E-01
Ā					3.3822E-01	2.1214E-01	1.7006E-01
-	3.8238E-01	2,42608-01	1.9495E-01 3.5701E-01	A	3.3822E-01 3.3047E-01	2.1214E-01 3.660dE-01	1.7006E-01 3.4881E-01
A+	3.8238E-01 3.0857E-01 1.6269E-04	2.4260E-01 3.6308E-01 1.0413E-02	1.9495E-01 3.5701E-01 3.0313E-02	A A+ A++	3.3822E-01 3.3047E-01 2.8344E-04	2.1214E-01 3.660dE-01 1.8561E-02	1.7006E-01 3.4881E-01 4.4018E-02
A	3.8238E-01 3.0857E-01 1.6269E-04 2.6713E-11	2.4260E-01 3.6308E-01 1.0413E-02 1.3388E-06	1.9495E-01 3.5701E-01 3.0313E-02 2.3714E-05	A A+ A++	3.3822E-01 3.3047E-01 2.8344E-04 9.9489E-11	2.1214E-01 3.660dE-01 1.8561E-02 5.8691E-06	1.7006E-01 3.4881E-01 4.4018E-02 45 6.7667E-05
A A+++ A+++	3.8238E-01 3.0857E-01 1.6269E-04 2.6713E-11 4.0508E-22	2.4260E-01 3.6308E-01 1.0413E-02 1.3388E-06 3.8505E-13	1.9495E-01 3.5701E-01 3.0313E-02 2.3714E-05 8.9838E-11	A A+ A++ A+++	3.3822E-01 3.3047E-01 2.8344E-04 9.9489E-11 4.535dE-21	2.1214E-01 3.660dE-01 1.8561E-02 5.8691E-06 5.9545E-12	1.7006E-01 3.4881E-01 4.4018E-02 6.7667E-05 6.6996E-10
A A A A A A A A A A A A A A A A A A A	3.8238E-01 3.0857E-01 1.6269E-04 2.6713E-11 4.0508E-22 7.3623E-37	2.4260E-01 3.6308E-01 1.0413E-02 1.3388E-06 3.8505E-13 2.6669E-22	1.9495E-C1 3.5701E-O1 3.0313E-O2 2.3714E-O5 8.9838E-11 1.7305E-18	A A+ A++ A+++ A+++	3.3822E-01 3.3047E-01 2.8344E-04 9.9489E-11 4.5354E-21 3.3937E-35	2.1214E-01 3.6604E-01 1.8561E-02 5.8691E-06 5.9545E-12 2.0634E-20	1.7006E-01 3.4881E-01 4.4018E-02 48 6.7667E-05 6.6996E-10 4.4349E-17
A A++ A+++ A+++ AV	3.8238E-01 3.0857E-01 1.6269E-04 2.6713E-11 4.0508E-22 7.3623E-37 7.6302E-56	2.4260E-01 3.6308E-01 1.0413E-02 1.3388E-06 3.8505E-13 2.6669E-22 2.3988F-34	1.9495E-01 3.5701E-01 3.0313E-02 2.3714E-05 8.9838E-11 1.7305E-18 9.5001E-29	A A+ A++ A+++ AV AVI	3.3822E-01 3.3047E-01 2.8344E-04 9.9489E-11 4.5354E-21 3.3937E-35 2.0173E-53	2.1214E-01 3.6604E-01 1.8561E-02 5.8691E-06 5.9545E-12 2.0634E-20 1.3396E-31	1.7006E-01 3.4881E-01 4.6018E-02 % 6.7667E-05 6.6996E-10 4.4349E-17 1.1195E-26
A	3.8238E-01 3.0857E-01 1.6269E-04 2.6713E-11 4.0508E-22 7.3623E-37 7.6302E-56 2.3797E-81	2.4260E-01 3.6308E-01 1.0413E-02 1.3388E-06 3.8505E-13 2.6669E-22 2.3988E-34 2.8952E-50	1.9495E-C1 3.5701E-O1 3.0313E-O2 2.3714E-O5 8.9838E-11 1.7305E-18 9.5001E-29 2.9039E-42	A A++ A+++ A+++ AV AVI AVII	3.3822E-01 3.3047E-01 2.8344E-04 7.9489E-11 4.535dE-21 3.3937E-35 2.0173E-53 7.0151E-78	2.1214E-01 3.6600E-01 1.8561E-02 5.8691E-06 5.9545E-12 2.0634E-20 1.3396E-31 2.2917E-46	1.7006E-01 3.4881E-01 4.4018E-02 48 6.7667E-05 6.6996E-10 4.4349E-17
A A++ A+++ A+++ AV	3.8238E-01 3.0857E-01 1.6269E-04 2.6713E-11 4.0508E-22 7.3623E-37 7.6302E-56	2.4260E-01 3.6308E-01 1.0413E-02 1.3388E-06 3.8505E-13 2.6669E-22 2.3988F-34	1.9495E-01 3.5701E-01 3.0313E-02 2.3714E-05 8.9838E-11 1.7305E-18 9.5001E-29	A A+ A++ A+++ AV AVI	3.3822E-01 3.3047E-01 2.8344E-04 9.9489E-11 4.5354E-21 3.3937E-35 2.0173E-53	2.1214E-01 3.6604E-01 1.8561E-02 5.8691E-06 5.9545E-12 2.0634E-20 1.3396E-31	1.7006E-01 3.4881E-01 4.6018E-02 % 6.7667E-05 6.6996E-10 4.4349E-17 1.1195E-26

P1 =	2.00E+04 N/SQ-N	. US1= 9.20E+0	3 M/SEC	P1 =	2.00E+04 N/SQ-M	. US1= 9.60E+0	3 M/SEC
			•		•		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
p e	.1.2267E+03	1.0376E+04	1.5324E+04	P	1.3381E+03	1.1489E+04	1.6965E+04
ī	7.6981E+01	1.2370E+02	1.4136E+02	Ť	8.0158E+01	1.3070E+02	1.4867E+02
RHO	1.0490E+01	4.9285E+01	6.0002E+01	RHO	* 1.3645E+01	5.0077E+01	6.1052E+01
н	2.6959E+02	4.8120E+02	5.8545E+02	H	2.9355E+02	5.2487E+02	6.3846E+02
7	9.1586E+00	1.23855+01	1.3634F+01	Ä	9.5392E+00	1.2908E+01	1.42545.01
7	1.5643E+00	1.6612E+00	1.7245E+00	ŝ	1.5953E+00	1.6948E+00	1.7604E+00
ž.	1.51906+00	1.7019E+00	1.8066E+00	ž	1.5682E+30	1.75558+00	1.86915+00
GAME	7.1732E-01	7.2860E-01	7.2787E-01	GAME	7.2390E-01	7.2619E-01	7.3122E-01
UARE	2.5788E+01	5.4947E+00	5.4787E+00	14	2.69606+01	5.7374E+00	5.7095E+00
J	2.3.002.02	3.434.2400	3241816400	, •	2.0705(.01	3113142100	3.10336100
	1.0	;	• • • •	•	,		
SPECI	ES	- MOLE FRACTIONS		SPEC IE	s	-, MOLE FRACTIONS	
	. 1 (1(05 0)	4 12425 01		E-	2 42225-01	4.3035E-01	4 44 005 - 61
E**	3.4168E-01 3.1702E-01	4.1243E-01	4.4647E-01	Α ,	3.6232E-01 2.7602E-01	1.7476E-01	4.6498E-01
		1.9878E-01	1.5863E-01				
A+	3.4093E-01	3.6515E-01	3.4345E-01	A+ · ·	3.6100E-01	3.5948E-01	3.3089E-01
A++	3.7440E-04	2-3626E-02	5.1350E-02	A++	6.6198E-04	3 - 53 84E - 02	6.6694E-02
A+++		1.1063E-05	1.0622 E-04	A+++	7.4970E-10	3'- 3047E-05	2.3551E-04
A++++	1.5231E-20	1.9483E-11	1.6083 6-09	A++++	1.8331E-19	1.5406E-10	7.7017E-09
AV	2.3009E-34	1.3668E-19	1.8391E-16	AV	1.1750E-32	3.7606E-18	2.3744E- 15
AVI	3.2272E-52	2.1122E-30	9.1370E-26	AVI	9.7429E-50	2.6991E-28	
IIVA	3.5942E-76	1.1519E-44	5.1882E-38	IIVA	1.2421F-72	1.1392E-41	1.1619E-35
AVIII	3.	3.8751E-62	4.0925E-53	111VA	0	4.1853E-58	6.1332 E-50
			are and				
			9 Table 1	· •			
	•						9.

P1 =	2.00E+04 N/S0-M	. US1= 9.40E+0	O3 M/SEC	P1 =	2.00E+04 N/S0-M	. US1= 9.80E+0	3 M/SEC
P1 =	2.00E+04 N/SQ-M	, US1= 9.40E+0	D3 M/SEC	Pl =	2.00E+04 N/SQ-M	. US1= 9.80E+0	3 M/SEC
P1 =			D3 M/SEC	P1 =			
P1 =	·· MOVING SHOCK	, US1= 9.40E+0	03 M/SEC REFLECTED SHOCK		MOVING SHOCK	STANUING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK: 1.2815E+03	STANDING SHOCK 1.0911E+04	•	P	MOVING SHOCK 1.3951E+33	STANDING SHOCK 1.2338E+04	REFLECTED SHOCK
P T	·· MOVING SHOCK	STANDING SHOCK 1.0911E+04 1.2720E+02	REFLECTED SHOCK	P T	MDVING SHOCK 1.3951E+33 8:1874E+01	STANDING SHOCK 1.2338E+04 1.3403E+02	REFLECTED SHOCK 1.7769E+04 1.5220E+02
P	MOVING SHOCK: 1.2815E+03	STANDING SHOCK 1.0911E+04	REFLECTED SHOCK 1.6135E+04	P T RHO	MOVING SHOCK 1.3951E+33	STANDING SHOCK 1.2038E+04 1.3403E+02 5.0383E+01	REFLECTED SHOCK
P T	MDVING SHDCK 1.2815E+03 7.8527E+01	STANDING SHOCK 1.0911E+04 1.2720E+02	REFLECTED SHOCK 1.6135E+04 1.4498E+02	P T	MOVING SHOCK 1.3951E+03 8.1874E+01 1.0696E+01 3.0589E+02	STANDING SHOCK 1.2338E+04 1.3403E+02 5.0383E+01 5.4721E+02	REFLECTED SHOCK 1.7769E+04 1.5220E+92 6.1417E+01 6.6552E+02
P T RHO	MOVING SHOCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01	P T RHO H A	MOVING SHOCK 1.3951E+03 8:1874E+01 1:0696E+01 3.0589E+02 9:7441E+00	STANUING SHOCK 1.238E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01	REFLECTED SHOCK 1.7769E.04 1.5220E.92 6.1417E.01 6.6552E.02 1.4566E.01
P T RHO	MDVING SHDCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02	Р Т ЯНО Н	MOVING SHOCK 1.3951E+03 8:1874E+01 1:0696E+01 3.0589E+02 9:7441E+00 1.6109E+00	STANDING SHOCK 1.238E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00	REFLECTED SHOCK 1.77698-04 1.5220E-92 6.1417E-01 6.6552E-02 1.4566E-01 1.7782E-00
P T RHO H A S	MOVING SHOCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01	P T RHO H A S Z	MGVING SHOCK 1.3951E+33 8:1874E+01 1:0696E+01 3.0589E+02 9:7441E+00 1.6109E+00 1.5931E+00	STANDING SHOCK 1.2338E+04 1.3403E+02 5.0383E+01 5.472IE+02 1.3171E+01 1.7116E+00 1.7827E+00	REFLECTED SHOCK 1.7769E+04 1.5220E+02 6.1417E+01 6.6552E+02 1.4566E+01 1.7782E+00 1.9009E+00
P T RHO H A S	MOVING SHOCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5798E+00	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00	P T RHO H A S	MOVING SHOCK 1.3951E+03 8:1874E+01 1:0696E+01 3.0589E+02 9:7441E+00 1.6109E+00	STANDING SHOCK 1.238E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00	REFLECTED SHOCK 1.77698-04 1.5220E-92 6.1417E-01 6.6552E-02 1.4566E-01 1.7782E-00
P T RHO H A S	MOVING SHOCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5798E+00 1.5435E+00	STANDING SHOCK 1.0911E+04 1.2720E+02 4.962TE+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.836E+00	P T RHO H A S Z	MGVING SHOCK 1.3951E+33 8:1874E+01 1:0696E+01 3.0589E+02 9:7441E+00 1.6109E+00 1.5931E+00	STANDING SHOCK 1.2338E+04 1.3403E+02 5.0383E+01 5.472IE+02 1.3171E+01 1.7116E+00 1.7827E+00	REFLECTED SHOCK 1.7769E+04 1.5220E+02 6.1417E+01 6.6552E+02 1.4566E+01 1.7782E+00 1.9009E+00
P T RHO H A S	MDVING SHDCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5734E+00 1.5435E+00 7.2035E-01	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01	P T RHO H A S Z GAME	MOVING SHOCK 1.3951E+03 8:1874E+01 1:0696E+01 3.0589E+02 9:7441E+00 1.6109E+00 1.5931E+00 7.2794E-01	STANDING SHOCK 1.2038E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01	REFLECTED SHOCK 1.77698004 1.52208002 6.1417801 6.6552802 1.4566801 1.7782800 1.9009800
P T RHO H A S Z GAME	MOVING SHOCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5798E+00 1.5435E+00 7.2035E-01 2.6369E+01	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01 5.6459E+00	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00	P T RHO H A S Z GAME U	MOVING SHOCK 1.3951E+33 8:1874E+01 1:0696E+01 3:0589E+02 9:7441E+00 1:6109E+00 1:5931E+00 7:2794E-01 2:7535E+01	STANDING SHOCK 1.2338E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01 5.8521E+00	REFLECTED SHOCK 1.77698 00 1.5220E 902 6.1417E 01 6.6552E 002 1.4566E 01 1.7782E 00 1.9008 00 7.3337E 01 5.8228E 00
P T RHO H A S	MOVING SHOCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5798E+00 1.5435E+00 7.2035E-01 2.6369E+01	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00	P T RHO H A S Z GAME	MOVING SHOCK 1.3951E+33 8:1874E+01 1:0696E+01 3:0589E+02 9:7441E+00 1:6109E+00 1:5931E+00 7:2794E-01 2:7535E+01	STANDING SHOCK 1.2038E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01	REFLECTED SHOCK 1.77698 00 1.5220E 902 6.1417E 01 6.6552E 002 1.4566E 01 1.7782E 00 1.9008 00 7.3337E 01 5.8228E 00
P T RHO H A S Z GAME	MOVING SHOCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5798E+00 1.5435E+00 7.2035E-01 2.6369E+01	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01 5.6459E+00	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00	P T RHO H A S Z GAME U	MOVING SHOCK 1.3951E+33 8:1874E+01 1:0696E+01 3:0589E+02 9:7441E+00 1:6109E+00 1:5931E+00 7:2794E-01 2:7535E+01	STANDING SHOCK 1.2338E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01 5.8521E+00	REFLECTED SHOCK 1.77698 00 1.5220E 902 6.1417E 01 6.6552E 002 1.4566E 01 1.7782E 00 1.9008 00 7.3337E 01 5.8228E 00
P T RHO H A S Z GAME	MOVING SHOCK 1.28155+03 7.85276+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5798E+00 1.5735E+01 7.2035E+01 2.6369E+01	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01 5.6459E+00	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00	P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.3951E+03 8:1874E+01 1:0696E+01 3:0589E+02 9:7441E+00 1.6109E+00 1.5931E+00 7.2794E-01 2.7535E+01	STANDING SHOCK 1.2038E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01 5.8521E+00	REFLECTED SHOCK 1.7769e04 1.5220e02 6.1417E+01 6.6552e02 1.4566E01 1.7782E+00 1.9009E+00 7.3337E-01 5.8228E+00
P T RHO HH A S Z GAME U SPECIO	MOVING SHOCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5798E+00 1.5435E+00 7.2035E-01 2.6369E+01	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01 5.6459E+00	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00	P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.3951E+33 8:1874E+01 1:0696E+01 3:0589E+02 9:7441E+00 1:6109E+00 1:5931E+00 7:2794E-01 2:7535E+01 S	STANDING SHOCK 1.2338E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01 5.8521E+00	REFLECTED SHOCK 1.7769e 04 1.5220E+02 6.1417E+01 6.6552E+02 1.4566E+01 1.7782E+00 1.9009E+00 7.3337E-01 5.8228E+00
P T RHO HH A S Z GAME U SPECIO	MDVING SHDCK 1.2815E+03 7.852TE+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5738E+00 7.2035E-01 2.6369E+01 ES	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01 5.6459E+00 - MOLE FRACTIONS 4.2144E-01 1.8638E-01	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00	P T RHO H A S Z GAME U SPECIE E- A	MGVING SHOCK 1.3951E+33 8:1874E+01 1:0696E+01 3.0589E+02 9:7441E+00 1.6109E+00 7.2794E-01 2.7535E+01 S 3.7230E-01 2.5630E-01	STANDING SHOCK 1.2338E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 7.2597E-01 5.8521E+00 - MOLE FRACTIONS 4.3905E-01 1.6385E-01	REFLECTED SHOCK 1.77698+04 1.52200+02 6.1417E+01 6.6552E+02 1.4566E+01 1.7782E+00 1.9009E+00 7.3337E-01 5.8228E+00
PTTRHOHAASZGAMEUUSPECIO	MDVING SHDCK 1.28155+03 7.85276+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5738E+01 2.6369E+01 2.6369E+01	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01 5.6459E+00 - MOLE FRACTIONS 4.2144E-01 1.8638E-01 3.6294E-01	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00	P T RHO H A S Z GAME U SPECIE E- A A+	MOVING SHOCK 1.3951E+03 8:1874E+01 1:0696E+01 3:0599E+02 9:7441E+00 1:6109E+00 1:5931E+00 7:2794E-01 2.7535E+01 3.7230E-01 2.5630E-01 3.7052E-01	STANDING SHOCK 1.2038E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01 5.8521E+00 - MOLE FRACTIONS 4.3905E-01 1.6385E-01 3.5521E-01	REFLECTED SHOCK 1.7769e 004 1.5220E +02 6.1417E +01 6.6552E +02 1.4566E +01 1.7782E +00 1.9009E +00 7.3337E -01 5.8228E +00 4.7393E -01 1.2727E -01 3.2399E -01
PT RHO HAS S Z GAME U SPECIO	MOVING SHOCK 1.28155+03 7.85276+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5738E+01 2.6369E+01 2.6369E+01 2.6369E+01 3.5211E-01 2.9629E-01 3.511E-01 4.9644E-04 3.7721E-10	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01 5.6459E+00 MOLE FRACTIONS 4.2144E-01 1.8638E-01 3.6294E-01 2.9217E-02	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00 4.5558E-01 1.4793E-01 3.3755E-01 5.8778E-02	P T RHO H A S Z GAME U SPECIE E- A A+ A++	MOVING SHOCK 1.3951E+33 8:1874E+01 1:0696E+01 3:0589E+02 9:7441E+00 1:6109E+00 1:5931E+00 7:2794E-01 2:7535E+01 S	STANUING SHOCK 1.2338E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01 5.8521E+00 - MOLE FRACTIONS 4.3905E-01 1.6385E-01 3.5521E-01 4.1839E-02	REFLECTED SHOCK 1.7769e 004 1.5220E+02 6.1417E+01 6.6552E+02 1.4566E+01 1.7782E+00 1.9009E+00 7.3337E-01 5.8228E+00 4.7393E-01 1.2727E-01 3.2399E-01 7.4469E-02
P T RHO H A S Z GAME U SPECIAL E-A A A+++++	MOVING SHOCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5798E+00 7.2035E-01 2.6369E+01 ES	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01 5.6459E+00 MOLE FRACTIONS 4.2144E-01 1.8638E-01 2.9217E-02 1.9537E-05	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00 4.5558E-01 1.4793E-01 3.3755E-01 5.8778E-02 1.5948E-02	P T RHO H A S Z GAME U SPEC IE E- A A+ A++	MOVING SHOCK 1.3951E+03 8:1876E+01 1.0696E+01 3.0589E+02 9:7441E+00 1.6109E+02 1.5931E+00 7.2794E-01 2.7535E+01 3.7230E-01 3.7052E-01 8.8737E-04 1.5107E-09	STANDING SHOCK 1.2038E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01 5.8521E+00 - MOLE FRACTIONS 4.3905E-01 3.5521E-01 4.1839E-02 5.2839E-02	REFLECTED SHOCK 1.77698-04 1.77698-04 1.52208-02 6.1417E+01 6.65528-02 1.45668-01 1.77828-00 1.90098-00 7.3337E-01 5.8228E+00 4.7393E-01 1.2727E-01 3.2398E-01 7.4469E-02 3.3408E-04
P T RHO H A S Z GAME U SPECII	MOVING SHOCK 1.28155+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5736E+00 7.2035E-01 2.6369E+01 ES 3.5211E-01 2.9629E-01 3.7721E-10 5.2119E-20 1.6082E-30	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 7.2707E-01 5.6459E+00 4.2144E-01 1.8638E-01 3.6294E-01 2.9217E-02 1.9537E-05 5.68C5E-11 7.5683E-11	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00 4.5558E-01 1.4793E-01 3.3755E-01 5.8778E-02 1.5948E-04 3.5668E-09 6.7408E-16	P T RHO H A S Z GAME U SPEC IE E- A A+ A++ A+++	MOVING SHOCK 1.3951E+33 8:1874E+01 1:0696E+01 3:0589E+02 9:7441E+00 1.6109E+00 1.5931E+00 7.2794E-01 2.7535E+01 S 3.7230E-01 2.5630E-01 3.7052E-01 3.7052E-01 8.8737E-04 1.5107E-09 6.5994E-19 8.8826E-32	STANDING SHOCK 1.2338E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01 5.8521E+00 - MOLE FRACTIONS 4.3905E-01 1.6385E-01 3.5521E-00 4.1839E-02 5.2839E-05 3.7758E-10	REFLECTED SHOCK 1.7769E 004 1.5220E +02 6.1417E +01 6.6552E +02 1.4566E +01 1.7782E +00 1.9009E +00 7.3337E -01 5.8228E +00 4.7393E -01 1.2727E -01 3.2399E -01 7.4469E -02 3.3408E -04 1.5458E -08 7.4468E -15
PT RHO HA A S Z GAME U SPECIAL E-A A+++++ A++++	MOVING SHOCK 1.2815E+03 7.8527E+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5798E+00 7.2035E-01 2.6369E+01 ES	STANDING SHOCK 1.0911E+04 1.2720E+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.7284E+00 7.2707E-01 5.6459E+00 - MOLE FRACTIONS 4.2144E-01 1.8638E-01 3.6294E-01 2.9217E-02 1.9537E-05 5.68CSE-11	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00 4.5558E-01 1.4793E-01 3.3755E-01 5.8778E-02 1.5948E-04 3.5668E-09 6.7408E-16 6.2440E-25	P T RHD H A S Z GAME U SPECIE E- A A+ A++ A+++ A+++	MOVING SHOCK 1.3951E+03 8:1874E+01 1:0696E+01 3:0589E+02 9:7441E+00 1:6109E+00 1:5931E+00 7:2794E-01 2.7535E+01 S 3.7230E-01 2.5630E-01 3.7052E-01 8.8737E-04 1.5107E-09 6.5994E-19	STANUING SHOCK 1.238E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01 5.8521E+00 - MOLE FRACTIONS 4.3905E-01 1.6385E-01 3.5521E-01 4.1839E-02 5.2839E-05 3.7758E-10 1.5936E-17	REFLECTED SHOCK 1.7769E-04 1.5769E-04 1.5220E-02 6.1417E+01 6.6552E-02 1.4566E-01 1.7782E-00 1.9009E+00 7.3337E-01 5.8228E+00 4.7393E-01 1.2727E-01 3.2399E-01 7.4469E-02 3.3408E-04 1.5453E-08 7.4468E-19 2.2055E-23
P T RHO H A S Z GAME U SPECIAL E-A A A + A + A + A + A + A + A + A + A +	MOVING SHOCK 1.28155+03 7.85278+01 1.0573E+01 2.8143E+02 9.3439E+00 1.5738E+01 2.6369E+01 2.6369E+01 2.6369E+01 3.5211E-01 2.9629E-01 3.5111E-01 4.9644E-04 3.7721E-10 5.2119E-20 1.6082E-33 5.4172E-51	STANDING SHOCK 1.09116+04 1.27206+02 4.9627E+01 5.0258E+02 1.2643E+01 1.6779E+00 1.72846+00 7.2707E-01 5.6459E+00 - MOLE FRACTIONS 4.2144E-01 1.8638E-01 2.9217E-02 2.9217E-02 2.9337E-05 5.68CSE-11 7.5683E-19 2.5741E-29	REFLECTED SHOCK 1.6135E+04 1.4498E+02 6.0592E+01 6.1161E+02 1.3936E+01 1.7421E+00 1.8368E+00 7.2931E-01 5.5980E+00 4.5558E-01 1.4793E-01 3.3755E-01 5.8778E-02 1.5948E-04 3.5668E-09 6.7408E-16	P T RHO H A S Z GAME U SPEC IE E- A A+ A++ A+++ AV AV	MOVING SHOCK 1.3951E+03 8:1874E+01 1:0696E+01 3:0589E+02 9:7441E+00 1:6109E+00 1:5931E+00 7:2794E-01 2:7535E+01 S 3.7230E-01 2:5630E-01 3:7052E-01 8:8137E-04 1:5107E-09 6:5994E-19 8:8426E-32 1:8319E-48	STANDING SHOCK 1.2038E+04 1.3403E+02 5.0383E+01 5.4721E+02 1.3171E+01 1.7116E+00 1.7827E+00 7.2597E-01 5.8521E+00 - MOLE FRACTIONS 4.3905E-01 1.6385E-01 3.5521E-01 4.1839E-02 5.2839E-05 3.7758E-10 1.5936E-17 2.2474E-27	REFLECTED SHOCK 1.7769E 004 1.5220E +02 6.1417E +01 6.6552E +02 1.4566E +01 1.7782E +00 1.9009E +00 7.3337E -01 5.8228E +00 4.7393E -01 1.2727E -01 3.2399E -01 7.4469E -02 3.3408E -04 1.5453E -08 7.4468E -15

P1 = 20 kN/ m²

P1 =	2.00E+04 N/5U-A	1, US1= 1.00E+0	4 M/SEC	P1 = 2	.00E+04 N/SQ-	4. US1= 1.04E+6	04 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
	1.45306+03	1.2565E+04	1.8562E+04	P	1.5718E+03	1.3643E+04	2.0105£+04
P.	8.36916+01	1.3731E+02	1.55736+02	Ť	8.7675E+01	1.4357E+02	
ŘHO	1.07296+01	5.0529E+01	6.1636E+01	RHO	1.0746E+01	5.0891E+01	1.62698+02
H	3.1845E+02	5.6982E+02	6.9301E+02				6.1766E+01
A.				н .	3.4440E+02	6.1657E+02	7.4940E+02
Ŝ	9.95946+00	1.3439E+01	1.4885E+01	A	1.0418E+01	1.3974E+01	1.5529E+01
	1.6264E+00	1.7288E+00	1.7962E+00	S	1.6574E+00	1.7620E+00	1.8322E+00
ζ	. 1.6182E+00	1.8110E+00	1.9338E+00	2	1.6683E+30	1.8673E+00	2.0008E+00
GAME	7.32428-01	7.2633E-01	7.3575E-01	GAME	7.41995-01	7.28408-01	7.4083E-01
Ų	2.81066+01	5.9977E+00	5.9346E+00	. U	2.9235E+01	6.1801E+00	6.16208+00
SPECIE	s	- MOLE FRACTIONS		SPEC IES	+	MOLE FRACTIONS	
E-	3.8201E-01	4.4783E-01	4.8288E-01	E-	4.0059E-01	4.6447E-01	5.0021E-01
A	2.3717E-01	1.53216-01	1.1760E-01	A	2.01055-01	1.3417E-01	9.9645E-02
A+	3.79625-01	3.5017E-01	3.1662E-01	Δ+	3.9614E-0!	3.3844E-01.	3.0094E-01
A++	1.1972E-03	4.8711E-02	8.2431E-02	A++	2.2236E-03	6.2753E-02	9.8367E-02
A+++	3.0946E-09	8.1596E-05	4.6479E-04	A+++	1.37195-08	1.7320E-04	8.4474E-04
A++++	2.4382E-18	8.7014E-10	2.9973E-08	4++++	3.68248-17	3.7650E-09	1.0076E-07
AV	6.9174E-31	6.1354E-17	2.2156E-14	AV	4.9704E-29	5.6247E-16	1.6435E-13
AVI	3.5019E-47	1.6302E-26	1.1169E-22	IVA	1.6975E-44	5.4557E-25	2.21706-21
IIVA	5.0462E-69	3.8953E-39	1.3350€-33	AVII	3.30355-65	5.8178E-37	9.5410E-32
LIIVA	0.	1.0920E-54	3.7715E-47	LIVA	2.8163E-90	9.3916E-52	1.2197E-44:
	•						ı.
P1 =	2.00E+04 N/SU-M	US1= 1 02É+0	04 M/SEC	P1 = 2	-03E+04 N/SQ-M	. US1= 1.06E+0	14 M/SEC
	MOVING SHOCK	STANDING SHUCK	REFLECTED SHOCK		MUVING SHUCK	STANDING SHUCK	REFLECTED SHOCK
P	1.5119E+03	1.3116E+04	1.9345E+04	P	1.6325E+03	1-4161E+04	2.08578+04
T .	8.5622E+01	1.4047E+02	1.5924E+02	T	8.984JE+01	1.4669E+02	1.6614E+02
RHO	.1.0746E+01	5.0775E+01	6.1757E+01	RHO	1.0734E+01	5.0883E+01	0.1687E+01
н	3.3132E+02	5.9306E+02	7.2110E+02	н	3.5773E+02	6.4044E+02	7.7827E+02
Α .	1.0184E+01	1.3705E+01	1.5207E+01	A	1.36545+01	1.4253E+01	1.5854E+01
5	1.6419E+00	1.7453E+00	1 • 81 4 3E + 00	S	1.6727E+30	1.7793E+00	1.85026+00
2 .	1.6433E+30	1.8388E+00	1.9672E+00	Z	1.6930E+00	1.8972E+00	2.03515+00
GAME	7.3720E-01	7.2717E-01	7.3826E-01	GAME	7.4633E-01	7.2997E-01	7.43435-01
U	2.8673E+01	6.0766E+00	6.0544F+00	U	2.9794E+31	6.2871E+30	6.2762E+00
SPEC IE	s	- MULE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	3.9146E-01	4.5617E-01	4.9166E-31	£ -	4.0932E-01	4 73035 01	F 03/35-01
A	2.187ZE-01	1.4352E-01	1.08385-01	Ā		4.72925-01	5.0862F-01
A +	3.88208-01	3.4455E-01	3.0891E-01		1.84416-01	1.2489E-01	9.1313E+02
A++ .		5.5632E+02		A+	4.0322E-01	3.3172E-01	2.92636-01
	1.6265E-03		9.04255-02	Δ++	3.04875-03	7.0233E-02	1.0632E-01
A+++	6.4621E-09	1.2061E-04	6.3308E-04	A + + +	2.94235-08	2.4481E-04	:1.1138E-03
	9.3529E-18	1.8573E-09	5.5990E-08	A++++	1.47995-16	7.4297E-09	1.7679E-07
AV .	5.7802E-3C	2.0993E-16	6.2148E-14	AV	4.4477E-28	2.0061E-15	4.17756-13
IVA	7.6774E-46	9.9980E-26	5.1939E-22	AV1	4.06915-43	2.8064E-24	8.9385E-21
IIVA	4.2746E-67	5.1635E-38	1.2000E-32	LIVA	3.0872E-63	6.0060E-36	6.9912E-31
AVIII	4.2786E-43	3.58025-53	7.3716E-46	AVIII	1.36756-47	2.1895E-53	1 43575-42

P1 = 2	2.00E+04 N/SQ-M	. US1= 1.08E+0	4 M/SEC		P1 = 2	2.00E+04 N/SQ-M	, US1= 1.15E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.6933E+03	1.4632E+04	2.1541E+04		ρ	1.9177E+03	1.6420E+04	2.4147E+04
T	9.2178E+01	1.4959E+02	1.6951E+02		T	1.0075E+02	1.6009E+02	1.8179E+02
RHD	1.06925+01	5.0787E+01	6.1407E+01		RHO	1.0583E+01	5.0450E+01	6.0550E+01
н	3.7126E+02	6.6430E+02	8.0714E+02		H	4.2074F+02	7.5237E+02	9.1401E+02
Ä	1.08976+01	1.4519E+01	1.6176E+01		Ä	1.1645E+01	1.5510E+01	1.7346E+01
Š	1.6884E+30	1.7957E+00	1.8682E+00		ŝ	1.7405E+00	1.8546E+00	1.9315E+00
ž	1.7181E+00	1.9260E+00	2.0695E+00		ž	1.7986E+00	2.03316+00	2.1937E+00
GAME	7.4982E-01	7.3168E-01	7.4595E-01		GAME	7.4838E-01	7.3911E-01	7.5447E-01
U	3.0331E+01	6.3927E+00	6.3902E+00		U	3.2262E+01	6.7749E+00	6.8039E+00
U	3.03312401	0.37276400	0.39026400		·	3.22026.01	6.77496400	0.003 7. +00
SPECIES	· 	- MOLE FRACTIONS		•	SPECIES	s	- MOLE FRACTIONS	· :
E-	4.1796E-01	4.8079E-01	5.1679E-01		E-	4.4402E-01	5.0814E-01	5.4415E-01
Ā	1.6829E-01	1.1648E-01	8.3460E-02		Ā	1.2404E-01	8.9193E-02	5.9352E-02
A+	4.0952E-01	3.2500E-01	2.8416E-01		A+	4.1986E-01	2.9808E-01	2.5210E-01
A++	4.2242E-03	7.7395E-02	1.1416E-01	•	A++	1.2077E-02	1.03 70E-01	1.4113E-01
A+++	6.4883E-08	3.3225E-04	1.43476-03		A+++	8.6103E-07	8. 8347E-04	3-2606E-03
A++++	6.2427E-16	1.3590E-08	2.9981E-07		A++++	7.0028E-14	9.7356E-08	1.6938E-06
AV	4.2717E-27	5.36106-15	1.0047E-12		AV	7.1719E-24	1.37576-13	1.8226E-11
AVI	1.0664E-41	1.2095E-23	3.3202E-20	•	AVI.	4.8543E-37	1.49838-21	
	3.1457E-61				AVII			
AVII		4.82148-35	4.5500E-30			1.2277E-54	4.6760E-32	2.2959E-27
AVIII	6.71836-85	3.6573E-49	2.2791E-42		IIIVA	4.5580E-76	3.98746-45	1-0417E-38
		,		:		.∻	•	
P1 = 2	2.00E+04 N/SQ-M	, US1= 1.10E+0	4 M/SEC		P1 = 2	2.00E+04 N/SQ-M	, US1= 1-20E+0	4 M/SEC
P1 = 2			•	:	P1 = 2	· · · · · · · ·		
:	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
·. P	MOVING SHOCK 1.7570E+03	STANDING SHOCK 1.5173E+04	REFLECTED SHOCK 2.2326E+04		P	MOVING SHOCK 2.0872E+03	STANDING SHOCK	REFLECTED SHOCK 2.6185E+04
·. P T	MOVING SHOCK 1.7570E+03 9.4516E+01	STANDING SHOCK 1.5173E+04 1.5266E+02	REFLECTED SHOCK 2.2326E+04 1.7306E+02		P T	MOVING SHOCK 2.0872E+03 1.0690E+02	STANDING SHOCK 1.7799E+04 1.6774E+02	REFLECTED SHOCK 2.6185E+04 1.9093E+02
P T RHO	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01		P T RHO	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01	REFLECTED SHOCK 2.6185E+04 1.9093E+02 -6.0055E+01
P T RHO H	MOVING SHOCK 1.7570E+03 1.4516E+01 1.0676E+01 3.8512E+02	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.3748E+02		P T RHO H	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02
P T RHO H	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.11:22E+01	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.3748E+02 1.6513E+01		P T RHO '	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01	REFLECTED SHOCK 2.6185E+04 1.9093E+02 -6.0055E+01 9.9532E+02 1.8201E+01
P T RHO H A S	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.6512E+02 1.112E+01 1.7030E+00	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00	REFLECTED SHOCK 2.23268+04 1.7306E+02 6.1292E+01 8.3748E+02 1.6513E+01 1.8864E+00		P T RHO H A S	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00
P T RHO H A S	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.1122E+01 1.7030E+00 1.7412E+00	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.7748E+02 1.6513E+01 1.8864E+00 2.1049E+00		P T RHO H A S	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+00	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00 2.2837E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.112E+01 1.7030E+00 1.7412E+00 7.5162E-01	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.3748E+02 1.6513E+01 1.8864E+00 2.1049E+00 7.4854E-01		P T RHO H A S Z GAME	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+00 7.3865E-01	STANDING SHOCK 1.7799E04 1.6774E02 5.0241E01 8.1883E02 1.6245E01 1.8964E00 2.1121E00 7.4489E-01	REFLECTED SHOCK 2.6185E+04 1.9093E+02 -6.0055E+01 9.953Ze+02 1.8201E+01 1.976ZE+00 2.2837E+00 7.5980E-01
P T RHO H A S	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.1122E+01 1.7030E+00 1.7412E+00	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.7748E+02 1.6513E+01 1.8864E+00 2.1049E+00		P T RHO H A S	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+00	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00 2.2837E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.112E+00 1.7030E+00 1.7412E+00 7.5162E-01 3.0901E+01	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01	REFLECTED SHOCK 2.2326E + 04 1.7306E + 02 6.1292E + 01 8.3748E + 02 1.6513E + 01 1.8864E + 00 2.1049E + 00 7.4854E - 01 6.5082E + 00		P T RHO H A S Z GAME U	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+00 7.3865E-01 3.3651E+01	STANDING SHOCK 1.7799E04 1.6774E+02 5.024IE+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.112E+01 1.7030E+00 1.7412E+00 7.5162E-01 3.0901E+01	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.3748E+02 1.6513E+01 1.8864E+00 2.1049E+00 7.4854E-01 6.5082E+00		P T RHO H A S Z GAME U	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+00 7.3865E-01 3.3651E+01	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00	REFLECTED SHOCK 2.6185E+04 1.9093E+02 -6.0055E+01 9.953Ze+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00
P T RHO H A S Z Z GAME U SPECIES	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.122E+01 1.7030E+00 1.7412E+00 7.5162E-01 3.0901E+01	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00	REFLECTED SHOCK 2.2326E + 04 1.7306E + 02 6.1292E + 01 8.3748E + 02 1.6513E + 01 1.8864E + 00 2.104 9E + 00 7.4854E - 01 6.5082E + 00		PTRHOHASSZGAMEU	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+00 7.3865E-01 3.3651E+01	STANDING SHOCK 1.7799E04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00
P T RHD H A S Z GAME U SPECIES	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.1122E+01 1.7030E+00 7.5162E-01 3.0901E+01	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00 - MOLE FRACTIONS 4.8884E-01 1.0818E-01	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.3748E+02 1.6513E+01 1.8864E+00 2.1049E+00 7.4854E-01 6.5082E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 7.3865E-01 3.3651E+01	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.112E+01 1.7030E+00 1.7412E+00 7.5162E-01 3.0901E+01 4.2569E-01 1.5437E-01 4.1420E-01	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00 - MOLE FRACTIONS 4.8884E-01 1.0818E-01 3.1756E-01	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.3748E+02 1.6513E+01 1.8864E+00 2.1049E+00 7.4854E-01 6.5082E+00		PTRHOHASSZGAMEU	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2996E+01 1.7773E+00 1.8530E+00 7.3865E-01 3.3651E+01	STANDING SHOCK 1.7799E04 1.6774E402 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00 - MOLE FRACTIONS 5.2653E-01 7.2512E-02 2.7700E-01	REFLECTED SHOCK 2.6185E+04 1.9093E+02 -6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.112E+01 1.7030E+00 1.7412E+00 7.5162E-01 3.0901E+01 4.2569E-01 1.5437E-01 4.1420E-01 5.7421E-03	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00 - MOLE FRACTIONS 4.8884E-01 1.0818E-01 3.1756E-01 8.4964E-02	REFLECTED SHOCK 2.2326E + 04 1.7306E + 02 6.1292E + 01 8.3748E + 02 1.6513E + 01 1.8864E + 00 2.104 9E + 00 7.4854E - 01 6.5082E + 00 5.2491E - 01 7.5962E - 02 2.7519E - 01 1.2209E - 01		PTRHOHASSZGAMEUSPECIES	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+00 7.3865E-01 3.3651E+01	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00 - MOLE FRACTIONS 5.2653E-01 7.2512E-02 2.7700E-01	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00 5.6212E-01 4.5578E-02 2.2795E-01 1.5890E-01
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.112E+01 1.7030E+00 1.7412E+00 7.5162E-01 3.0901E+01 4.2569E-01 4.1420E-01 5.7421E-03 1.3732E-07	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00 - MOLE FRACTIONS 4.8884E-01 1.0818E-01 3.1756E-01 8.4904E-02 4.4985E-04	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.3748E+02 1.6513E+01 1.8864E+00 2.1049E+00 7.4854E-01 6.5082E+00 5.2491E-01 7.5962E-02 2.7519E-01 1.2209E-01 1.8447E-03		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2996E+01 1.7773E+00 1.8530E+00 7.3865E-01 3.3651E+01 4.6032E-01 1.0184E-01 4.1536E-01 2.2474E-02 4.1591E-06	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00 - MOLE FRACTIONS 5.2653E-01 7.2512E-02 2.7700E-01 1.2234E-01 1.6177E-03	REFLECTED SHOCK 2.6185E+04 1.9093E+02 -6.0055E+01 9.953Ze+02 1.6201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00
P T RHO H A S Z GAME U SPECIES E- A + A+++ A++++	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.112E+00 1.7030E+00 1.7412E+00 7.5162E+01 3.0901E+01 4.2569E-01 1.5437E-01 4.1420E-01 5.7421E-03 1.3732E-07 2.4494E-15	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00 - MOLE FRACTIONS 4.8884E-01 1.0818E-01 3.1756E-01 8.4964E-02 4.4985E-04 2.4899E-08	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.3748E+02 1.6513E+01 1.8864E+00 2.1049E+00 7.4854E-01 6.5082E+00 5.2491E-01 7.5962E-02 2.7519E-01 1.2209E-01 1.8447E-03 5.07 03E-07		P T RHO H S Z GAME U SPECIES	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+01 3.3651E+01 5 4.6032E-01 1.0184E-01 4.1536E-01 2.2474E-02 4.1591E-06 1.2709E-12	STANDING SHOCK 1.7799E04 1.6774E+02 5.024IE+01 8.1883E+02 1.6245E+01 1.8964E+00 2.112IE+00 7.4489E-01 7.0647E+00 - MOLE FRACTIONS 5.2653E-01 7.2512E-02 2.7700E-01 1.2234E-01 1.6177E-03 3.3976E-07	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00 5.6212E-01 4.5578E-02 2.2795E-01 1.5890E-01 5.4502E-03 5.1826E-06
P T RHO H A S Z GAME U SPECIES E-A A++ A+++ A+++ AV	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.1122E+01 1.7030E+00 1.7412E+00 7.5162E-01 3.0901E+01 4.2569E-01 1.5437E-01 4.1420E-01 5.7421E-03 1.3732E-07 2.4494E-15 3.6674E-26	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00 - MOLE FRACTIONS 4.8884E-01 1.0818E-01 3.1756E-01 8.4964E-02 4.4985E-04 2.4899E-08 1.4562E-14	REFLECTED SHOCK 2.2326E + 04 1.7306E + 02 6.1292E + 01 8.3748E + 02 1.6513E + 01 1.8864E + 00 2.104 9E + 00 7.4854E - 01 6.5082E + 00 5.2491E - 01 7.5962E - 02 2.7519E - 01 1.2209E - 01 1.8447E - 03 5.0703E - 07 2.4168E - 12		P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 2.0872E+03 1.0690E+02 1.9537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+01 3.3651E+01 4.6032E-01 1.0184E-01 4.1536E-01 2.2474E-02 4.1591E-06 1.2709E-12 6.9787E-22	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00 - MOLE FRACTIONS 5.2653E-01 7.2512E-02 2.7700E-01 1.6177E-03 3.3976E-07 1.0994E-12	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00 5.6212E-01 4.5578E-02 2.2795E-01 1.5890E-01 5.4502E-03 5.1826E-06 1.2141E-10
P T RHO H A S C GAME U SPECIES E- A A+ A+++ A++++ AVI	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.0512E+02 1.112E+01 1.7030E+00 1.7412E+00 7.5162E-01 3.0901E+01 4.2569E-01 1.5437E-01 4.1420E-01 5.7421E-03 1.3732E-07 2.4494E-15 3.6674E-26 2.3801E-40	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00 - MOLE FRACTIONS 4.8884E-01 1.0818E-01 3.1756E-01 8.4964E-02 4.499E-04 2.4899E-08 1.4542E-14 5.2931E-23	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.3748E+02 1.6513E+01 1.8864E+00 2.1049E+00 7.4854E+01 6.5082E+00 5.2491E+01 7.5962E+02 2.7519E+01 1.2209E+01 1.8447E+03 5.0703E+07 2.4168E+12 1.2388E+19		P T RHO H A S Z GAME U SPEC IE: E- A A+ A+++ A+++ AVI	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+00 7.3865E-01 3.3651E+01 S 4.6032E-01 1.0184E-01 2.2474E-02 4.1536E-01 2.2474E-02 4.1591E-06 1.2709E-12 6.9787E-02 3.6703E-34	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00 - MOLE FRACTIONS 5.2653E-01 7.2512E-02 2.7700E-01 1.2234E-01 1.6177E-03 3.3976E-07 1.0994E-12 3.3556E-20	REFLECTED SHOCK 2.6185E+04 1.9093E+02 -6.0055E+01 9.953ZE+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00 5.6212E-01 4.5578E-02 2.2795E-01 1.5890E-01 5.4502E-03 5.1826E-06 1.2141E-10 4.5337E-17
P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++AV AVI AVII	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.8512E+02 1.112E+00 1.7030E+00 1.7412E+00 7.5162E-01 3.0901E+01 4.2569E-01 1.5437E-01 4.1420E-01 5.7421E-03 1.3732E-07 2.4494E-15 3.6674E-26 2.3801E-40 2.5537E-59	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00 - MOLE FRACTIONS 4.8884E-01 1.0818E-01 3.1756E-01 8.4964E-02 4.4985E-04 2.4899E-08 1.4542E-14 5.2931E-23 3.9658E-34	REFLECTED SHOCK 2.2326E + 04 1.7306E + 02 6.1292E + 01 8.3748E + 02 1.6513E + 01 1.8864E + 00 2.104 9E + 00 7.4854E - 01 6.5082E + 00 5.2491E - 01 7.5962E - 02 2.7519E - 01 1.2209E - 01 1.8447E - 03 5.07 03E - 07 2.4168E - 12 1.2388E - 19 2.9884E - 29		P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A++++ AV AVII	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+01 3.3651E+01 4.6032E-01 1.0184E-01 4.1536E-01 2.2474E-02 4.1591E-06 1.2709E-12 6.9787E-22 3.6703E-34 1.4639E-50	STANDING SHOCK 1.7799E04 1.6774E+02 5.024IE+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00 - MOLE FRACTIONS 5.2653E-01 7.2512E-02 2.7700E-01 1.2234E-01 1.6177E-03 3.3976E-07 1.0994E-12 3.3556E-20 3.9783E-30	REFLECTED SHOCK 2.6185E+04 1.9093E+02 6.0055E+01 9.9532E+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00 5.6212E-01 4.5578E-02 2.2795E-01 1.5890E-01 5.4502E-03 5.1826E-06 1.2141E-10 4.5337E-17 1.3788E-25
P T RHO H A S C GAME U SPECIES E- A A+ A+++ A++++ AVI	MOVING SHOCK 1.7570E+03 9.4516E+01 1.0676E+01 3.0512E+02 1.112E+01 1.7030E+00 1.7412E+00 7.5162E-01 3.0901E+01 4.2569E-01 1.5437E-01 4.1420E-01 5.7421E-03 1.3732E-07 2.4494E-15 3.6674E-26 2.3801E-40	STANDING SHOCK 1.5173E+04 1.5266E+02 5.0805E+01 6.8932E+02 1.4803E+01 1.8126E+00 1.9563E+00 7.3370E-01 6.5010E+00 - MOLE FRACTIONS 4.8884E-01 1.0818E-01 3.1756E-01 8.4964E-02 4.499E-04 2.4899E-08 1.4542E-14 5.2931E-23	REFLECTED SHOCK 2.2326E+04 1.7306E+02 6.1292E+01 8.3748E+02 1.6513E+01 1.8864E+00 2.1049E+00 7.4854E+01 6.5082E+00 5.2491E+01 7.5962E+02 2.7519E+01 1.2209E+01 1.8447E+03 5.0703E+07 2.4168E+12 1.2388E+19		P T RHO H A S Z GAME U SPEC IE: E- A A+ A+++ A+++ AVI	MOVING SHOCK 2.0872E+03 1.0690E+02 1.0537E+01 4.5800E+02 1.2096E+01 1.7773E+00 1.8530E+00 7.3865E-01 3.3651E+01 S 4.6032E-01 1.0184E-01 2.2474E-02 4.1536E-01 2.2474E-02 4.1591E-06 1.2709E-12 6.9787E-02 3.6703E-34	STANDING SHOCK 1.7799E+04 1.6774E+02 5.0241E+01 8.1883E+02 1.6245E+01 1.8964E+00 2.1121E+00 7.4489E-01 7.0647E+00 - MOLE FRACTIONS 5.2653E-01 7.2512E-02 2.7700E-01 1.2234E-01 1.6177E-03 3.3976E-07 1.0994E-12 3.3556E-20	REFLECTED SHOCK 2.6185E+04 1.9093E+02 -6.0055E+01 9.953ZE+02 1.8201E+01 1.9762E+00 2.2837E+00 7.5980E-01 7.1255E+00 5.6212E-01 4.5578E-02 2.2795E-01 1.5890E-01 5.4502E-03 5.1826E-06 1.2141E-10 4.5337E-17

$p_1 = 20 \text{ kN/ m}^2$

P1 = 2.00E+04 N/SQ-M.

US1= 1.35E+04 M/SEC

US1= 1.25E+04 M/SEC

P1 = 2.00E+04 N/SQ-M.

	2.002+04 N/34-44	11 - Franciat (1) 24 (1) 031- 11325-04 Widte
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7	HOUTER CHOCK STANDING CHOCK DESIGNATED ENDOY	MONTHS CHOCK STANDING SHOCK DESIGNED SHOCK
	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
interest of the second	2.2650E+03 1.9337E+04 2.8519E+04	P 2.6465E+03 2.2824E+04 3.3878E+04
- 1 ₹ . 24.	1.1260E+02 1.7567E+02 2.0066E+02	T 1.2285E+02 1.9244E+02 2.2121E+02
, KHO	1.0555E+01 5.0212E+01 5.9828E+01	RHO : 1.0698E+01 5.0350E+01 5.9866E+01
. H . ;	4.9689E+02 8.8845E+02 1.0821E+03	H 5.7958E+02 1.0373E+03 1.2677E+03
•	1.2519E+01 1.7001E+01 1.9091E+01	A 1.3385E+01 1.8564E+01, 2.0920E+01
\$	1.8135E+00 1.9377E+00 2.0212E+00	\$ 1.88515+00 2.0193E+00 2.1089E+00
183	1.9058E+00 2.1923E+00 2.3756E+00	2.0136E+00 2.3556E+00 2.5582E+00
GAME	7.3039E-01	GAME 7.2419E-01 7.6024E-01, 7.7334E-01
u ·	3.5059E+01 7.3785E+00 7.5096E+00	U 3.7932E+01 8.0999E+00 8.2434E+00
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		· · · · · · · · · · · · · · · · · · ·
SPECIE		SPECIES MOLE FRACTIONS
200		·
F-	4.7528E-01 5.4386E-01 5.7906E-01	
•	8.5788E-02 5.8145E-02 3.4291E-02	
A0	4.0260E-01 2.5494E-01 2.0299E-01	A+ 3.6291E-31 2.0932E-01 1.5460E-01
Att	3.6314E-02 1.4027E-01 1.7494E-01	A++ 7.0098E-02 1.7231E-01 1.9850E-01
Acce in	1.4718E-05 2.7906E-03 8.7103E-03	A+++ 9.4683E-05 7.1687E-03 1.9042E-02
A	1.3375E-11 1.0773E-06 1.4852E-05	A++++ 4.6375E-10 8.5498E-06 79.4502E-05
AV	- 2.9332E-20 7.6195E-12 7.3658E-10	AV 8.7313E-18 2.5805E-10 1.8495E-08
AVIII	8.3664E-32 6.1727E-19 7.0273E-16	AVI 3.4868E-28 1.2795E-16 9.8609E-14
ANTI:	.3.2070E-47. 2.5698E-28. 6.9798E-24.	AVII 4.5865E-42 5.3806E-25 8.4890E-21
AWRIL	4.0101E-66 4.6533E-40 5.5463E-34	AVIII 3.5450E-59 1.502IE-35 8.6683E-30
No. 32 10 1		
3636		
33.00	•	
1 3 To 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	•	·
D1 =	2.00E+04 N/SD-M. US1= 1.30E+04 M/SEC	P1 * 2.00E+04 N/SQ-M. US1= 1.40E+04 M/SEC
4.55	4-1	

1,2	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
₽	2.4511E+03 2.1020E+04 3.1068E+04	P 2.8484E+03 2.4747E+04 3.6817E+04
₹ ₽ ₹	1.1789E+02 - 1.8389E+02 2.1071E+02	T 1.2763E+02 2.0115E+02 2.3200E+02
RHO	1.0611E+01 5.0281E+01 5.9770E+01	RHD 1.07825+01 5.04925+01 5.98955+01
M 1	5.3740E+02 9.6126E+02 1.1725E+03	H 6.2332E+02 1.1163E+03 1.3668E+03
- A	1.2948E+01 1.7774E+01 1.9992E+01	A 1.3836E+01 1.9354E+01 2.1868E+01
€ . 5	-1.84955+00 1.9785E+00: 2.0652E+00	\$ 1.9208E+00 2.0590E+30 2.1522E+00
1.54	1.9593E+00 2.2734E+00 2.4668E+00	2 2.0699E+00 2.4366E+00 2.6495E+00
CAME	7.2578E-01 7.5568E-01 7.6897E-01	GAME 7.2466E-01 7.6424E-01 7.7797E-01
7	3.6481E+01 7.7004E+00 7.8736E+00	
3.5	7.07300400	U : 3.9369E+01 8.4157E+00 8.6445E+00
SPECIE	S MOLE FRACTIONS	SPECIES MOLE FRACTIONS
15	ere were and a record of the contract of the c	
E÷ ·	4.8961E-01 5.6012E-01 5.9462E-01	E- 5.1688E-01 5.8959E-01 6.2257E-01
A 21396 -	7.34425-02 ··· · 4.5949E-02 · · · · · 2.5480E-02	A 5.4971E-02 2.7513E-02 1.3489E-02
40 5.5	3.8432E-01 2.3231E-01 1.7844E-01	A+ ∴ 3.3960E-01 / 1015E1.8693E-01 - €€ 30E / 1.3203E-01 - €
400 B	5.2585E-02 1.5704E-01 1.8824E-01	A++ 8.8353E-02 1.8526E-01 7 346-2.0538E-01 7
Â+++ - x	4.0909E-05- 4.5721E-03 1.3180E-02	A+++ 1.9412E-04 1.0686E-02 2.6308E-02
40000	3.1434E-06 3.8874E-05	A++++ 1.8866E-09 / /2.1328E-05 2.1302E-04
AV	6.4714E-19 4.6547E-11 3.8978E-09	AV 8.5436E-17 1.2480E-09 7.8194E+08
AWATE	: 7.6706E-30 9.5583E-18 8.9821E-15	AVI 1.0054E-26 1.4177E-15 9.1761E-13
AVAI -	1.9904E-44 1.3028E-26 2.7092E-22	AVII 5.5902E-40 1.6939E-23 2.1058E-19
AVELL	7 : 2.3236E-62 9.5730E-38 7.9902E-32	AVIII 2.3380E-56 1.6387E-33 6.8675E-28
-445	4: 2:3230C 02	HTTT: 243300E-30 14030TE-33 040073E-20
T. #		the state of the s

P1 = 2	1.00E+04 N/SQ-M	, US1= 1.45E+0	4 M/SEC		P1 = 2	.00E+04 N/SQ-M	• US1= 1.55E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
· D	3.0577E+03	2.6709E+04	3.9883E+04		P	3.4976E+03	3.0738E+04	4.6288E+04
Ť	1.3231E+02	2.1005E+02	2.4309E+02		Ť	1.4166E+02	2.2828E+02	2.6619E+02
RHO	1.0861E+01	5.0504E+01	5.9863E+01		RHD	1.0980E+01	5.0260E+01	5.9496E+01
H	6.6865E+02	1.1979E+03	1.4699E+03		H .	7.6406E+02	1.3691E+03	1.6873E+03
7 .		2.0152E+01			Ä	1.5277E+01	2.1777E+01	2.4856E+01 4
ŝ	1.4302E+01		2.28416+01		Ŝ	2.0280E+00	2.17716+00	
2	1.9545E+00	2.0987E+00	2.1951E+00		2 .			2.2798E+00
GAME	2.1279E+00	2.5178E+00	2.7407E+00			2.2485E+00	2.6790E+00	2.9227E+00
GAME U .	7.2651E-01	7.6792E-01	7.8304E-01		SAME	7.3268E-01	7.7547E-01	7.9412E-01
υ ,	4.0805E+01	8.7840E+00	9.0522E+00			4.3667E+01	9.5791E+00	9.87926+00
			•				•	1. 1. 2. 2.
SPECIES		- MOLE FRACTIONS			SPECIES		- NOLE FRACTIONS	
E-	5.3005E-01	6.0282E-01	6.3513E-01		E-	5.5526E-01	6.2673E-01	6.5785E-01
Α .	4.7435E-02	2.0920E-02	9.6308E~03		A	3.4540E-02	1.17376-02	4.7375E-03 1
A+	3.1535E-01	1.6508E-01	1.1115E-01		A+	2.6620E-01	1.2468E-01	7.5449E-02
A++	1.0480E-01	1.9584E-01	2.0875E-01		A++	1.4292E-01	2.0873E-01	2.0513E-01
A+++	3.6422E-04	1.52908-02	3.4897E-02		A+++	1.0724E-03	2.7902E-02	5.5165E-02
A++++	6.5903E-09	4.9627E-05	4.4833E-04		A++++	5.9496E-08	2.2030E-04	1.6569E-03
AV .	6-6211E-16	5.4218E-09	2.9771E-07		AV	2.5168E-14	7.5264E-08	3.2717E-06
IVA	2.0814E-25	1.3461E-14	7.3474E-12		AVI	4.6731E-23	7.7923E-13	3.1601E-10 W
AVII	4-2858E-38	4.3144E-22	4.2263E-18		AVII	1.0070E-34	1.4807E-19	9.7016E-16
IIIVA	8.2647E-54	1.3342E-31	4.0888E-26		IIIVA	3.0598E-49	3.7649E-28	6.7816E-23
~~.	***************************************	1033166 31	4.00001-20		~****	3003702 47	3810476 20	00.0102 25
	\$							*
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•		•			•			
		:				005.04 N.450 M		
P1 = 2	2.00E+04 N/SQ-M	. US1= 1.50E+0	4 M/SEC		P1 = 2	.00E+04 N/SQ-N	. USI= 1.60E+0	4 M/SEC
P1 = 2	2.00E+04 N/SQ-N	, USI= 1.50E+0	₩ M/SEC	÷	P1 = 2	.00E+04 N/SQ-M		*
P1 = 2	2.00E+04 N/SQ-N				P1 = 2	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P1 = 2					P1 = 2	MOVING SHOCK 3.7281E+03		*
P1 = 2 P T	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		P	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 3.2741E+03	STANDING SHOCK 2.8689E+04	REFLECTED SHOCK		P	MOVING SHOCK 3.7281E+03	STANDING SHOCK 3.2801E+04	REFLECTED SHOCK
P	MOVING SHOCK 3.2741E+03 1.3696E+02	STANDING SHOCK 2.8689E+04 2.1906E+02	REFLECTED SHOCK 4.3041E+04 2.5446E+02		P	MOVING SHOCK 3.7281E+03 1.4645E+02	STANDING SHOCK 3.2801E+04 2.3765E+02	REFLECTED SHOCK 4.9605E+04 2.7834E+02 3.
P T RHO	MOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01		P T RHO	MOVING SHOCK 3.7281E+03 1.4645E+02 1.1016E+01	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01
P T RHO	MOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7.1556E+02	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03		P T RHO H	MOVING SHOCK 3.7281E+03 1.4645E+02 1.1016E+01 8.1412E+02	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03
P T RHO H	MOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7.1556E+02 1.4782E+01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01		P T RHO H	MOVING SHOCK 3.7281E+03 1.4645E+02 1.1016E+01 8.1412E+02 1.5786E+01	STANDING SHOCK 3.2801E+04 2.3765E+02 5.002E+01 1.4587E+03 2.2611E+01	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01
P T RHO H A S	MOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00		P T RHO H A S	MOVING SHOCK 3.7281E+03 1.4645E+02 1.1016E+01 8.1412E+02 1.5786E+01 2.6637E+00	STANDING SHOCK 3-2801E+04 2-3765E+02 5-0022E+01 1-4587E+03 2-2611E+01 2-2159E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.802ZE+03 2.5905E+01 2.32ZE+00
P T RHO H A S	MOVING SHOCK 3.2741E+03 1.3646E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00		P T RHO H A S	MOVING SHOCK 3-7281E+03 1-4645E+02 1-1016E+01 8-1412E+02 1-5786E+01 2-0637E+00 2-3107E+00	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.+5587E+03 2.2611E+01 2.2159E+00 2.7593E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.322ZE+00 3.0153E+00 8.
P T RHO H A S Z GAME	MOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01		P T RHO H A S	MOVING SHOCK 3-7281E+03 1-4645E+02 1-1016E+01 8-1412E+02 1-5786E+01 2-0637E+00 2-3107E+00 7-3639E-01	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01	REFLECTED SHOCK 4.9605E+04 2.7834E+02 2.5.9105E+01 2.5905E+01 2.322ZE+00 3.0153E+00 2.7.9956E-01 2.9956E-01 2.9056E-01 2.
P T RHO H A S Z GAME U	MOVING SHOCK 3.2741E+03 1.369E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00		P T RHO H A S	MOVING SHOCK 3-7281E+03 1-4645E+02 1-1016E+01 8-1412E+02 1-5786E+01 2-0637E+00 2-3107E+00 7-3639E+01 4-5090E+01	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.3222E+00 3.0153E+00 7.9956E-01 1.0325E+01
P T RHO H A S Z GAME U	HOVING SHOCK 3.2741E+03 1.364E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01 9.2010E+00	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00		P T RHJ H A S Z GAME U	MOVING SHOCK 3-7281E+03 1-6645E+02 1-1016E+01 8-1412E+02 1-5786E+01 2-0637E+00 2-3107E+00 7-3639E-01 4-5090E+01	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.3222E+00 3.0153E+00 7.9956E-01 1.0325E+01
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01	\$TANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01 9.2010E+00	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3-7281E+03 1-4645E+02 1-1016E+01 8-1412E+02 1-5766E+01 2-0637E+00 2-3107E+00 7-3639E-01 4-5090E+01	STANDING SHOCK 3.2801E+04 2.3765E+02 5.002ZE+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.3222E+00 3.0153E+001 1.0325E+01 6.6836E-01
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 7.7158E-01 9.2010E+00	REFLECTED SHOCK 4.3041E+04 2.5546E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3-7281E+03 1-4645E+02 1-1016E+01 8-1412E+02 1-5786E+01 2-0637E+00 7-3639E-01 4-5090E+01	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.3222E+00 3.0153E+00 ³ 7.9956E-01 1.0325E+01 6.6836E-01 3.2496E-03
PTRHOHASSZGAMEU	HOVING SHOCK 3.2741E+03 1.3646E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01 9.2010E+00	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3-7281E+03 1-4645E+02 1-1016E+01 8-1412E+02 1-5786E+01 2-0637E+00 2-3107E+00 7-3639E-01 4-5090E+01	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.322ZE+00 3.0153E+00 1.0325E+01 1.0325E+01 3.2496E-01 3.2496E-03 6.0685E-02
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01	\$TANDING \$HOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01 9.2010E+00	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+00 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3-7281E+03 1-4645E+02 1-1016E+01 8-1412E+02 1-5786E+01 2-0637E+00 2-3107E+00 7-3639E-01 4-5090E+01 	STANDING SHOCK 3.2801E+04 2.3765E+02 5.002ZE+01 1.4587E+03 2.2611E+01 2.2159E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.3222E+00 3.0153E+00 7.9956E-01 1.0325E+01 6.6836E-01 3.2496E-03 6.0685E-02 1.9844E-01
P T RHO H A S Z GAME U S SPECIES	MOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7-1556E+02 1.4762E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01 9.2010E+00 - MOLE FRACTIONS 6.1516E-01 1.5747E-02 1.4426E-01 2.0370E-01 2.1022E-02	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3-7281E+03 1-6645E+02 1-1016E+01 8-1412E+02 1-5766E+01 2-0637E+00 2-3107E+00 7-3639E-01 4-5090E+01 5-6723E-01 2-9006E-02 2-4201E-01 1-6002E-01 1-7288E-03	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4-9605E+04 2-7834E+02 5-9105E+01 1-8022E+03 2-5905E+01 2-322E+00 3-0153E+00 1-0325E+01 1-0325E+01 3-2496E-03 6-6836E-01 1-9844E-01 6-6301E-02
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.2741E+03 1.3646E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01 9.2010E+00	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00 6.4683E-01 6.7999E-03 9.2270E-02 2.0862E-01 4.4591E-02 8.8519E-04		P T RHO H A S Z GAME U SPECIES E-A A+A+++ A++++	MOVING SHOCK 3-7281E+03 1-4645E+02 1-1016E+01 8-1412E+02 1-5766E+01 2-0637E+00 2-3107E+00 7-3639E-01 4-5090E+01 5-6723E-01 2-9006E-02 2-4201E-01 1-6002E-01 1-7288E-03 1-6140E-07	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 2.5.9105E+01 1.802ZE+03 2.5905E+01 2.32ZE+00 3.0153E+001 1.03Z5E+01 1.03Z5E+01 3.2496E-03 4.0685E-02 1.9844E-01 4.063E-02 2.9615E-03 4.29615E-03 4.29615E-03 4.29615E-03 4.29615E-03 4.
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01 5.4285E-01 4.0665E-02 2.9075E-01 1.2509E-01 1.2509E-01 6.4042E-04 2.0622E-08 4.3402E-15	\$TANDING \$MOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01 9.2010E+00 - MOLE FRACTIONS 6.1516E-01 1.5747E-02 1.4426E-01 2.0370E-01 2.1022E-02 1.0771E-04 2.1137E-08	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00 6.4683E-01 6.7999E-03 9.2270E-02 2.0862E-01 4.4591E-02 8.8519E-04 1.0275E-06		P T RHO H A S Z GAME U SPECIES E- A A++ A++ A+++ AV	MOVING SHOCK 3-7281E+03 1-4645E+02 1-1016E+01 8-1412E+02 1-5786E+01 2-0637E+00 2-3107E+00 7-3639E-01 4-5090E+01 	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.3222E+00 3.0153E+00* 7.9956E-01 1.0325E+01 6.6836E-01 3.2496E-03 6.0685E-02 1.9844E-01 2.9615E-03 2.9615E-03 2.9615E-03 3.97277E-06
P T RHO H A S GAME U SPECIES	HOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01 9.2010E+00 - MOLE FRACTIONS 6.1516E-01 1.5747E-02 1.4426E-01 2.0370E-01 2.1022E-02 1.0771E-04 2.1137E-08 1.0928E-13	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00 6.4668E-01 6.7999E-03 9.2270E-02 2.0862E-01 4.4591E-02 8.8519E-04 1.0275E-06 5.1058E-11		P T RHO H A S Z GAME U SPECIES E-A A + A + + A + + + A + + + A + + + A V I	MOVING SHOCK 3-7281E+03 1-6645E+02 1-1016E+01 8-1412E+02 1-5786E+01 2-0637E+00 2-3107E+00 4-5090E+01	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.322E+00 3.0153E+00 7.9956E-01 1.0325E+01 3.2496E-03 6.6836E-03 1.9844E-01 2.9615E-03 2.9615E-03 3.7738E-09
P T RHO H A S Z GAME U SPECIES A+ A+++ A+++ AVII	MOVING SHOCK 3.2741E+03 1.369E+03 1.369E+01 7-1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01 5.4285E-01 4.0665E-02 2.9075E-01 1.2509E-01 6.4042E-08 4.3402E-15 3.3999E-24 2.2612E-36	\$TANDING \$HOCK 2.8689F+04 2.1906F+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01 9.2010E+00 **MOLE FRACTIONS 6.1516E-01 1.5747E-02 1.4426E-01 2.0370E-01 2.102ZE-02 1.0771E-04 2.1137E-08 1.0928E-13 8.752ZE-21	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00 6.4683E-01 6.7999E-03 9.2270E-02 2.0862E-01 4.4591E-02 8.8519E-04 1.0275E-06 5.1058E-11 6.9460E-17		P T RHO H A S Z GAME U SPECIES E-A A+A+++A+++AVI AVI L	MOVING SHOCK 3-7281E+03 1-4645E+02 1-1016E+01 8-1412E+02 1-5766E+01 2-0637E+00 2-3107E+00 7-3639E-01 4-5090E+01 5-6723E-01 2-9006E-02 2-4-201E-01 1-6002E-01 1-7288E-03 1-6140E-07 1-3313E-13 5-6472E-22 3-6211E-33	STANDING SHOCK 3.2801E+04 2.3765E+02 5.002ZE+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.3222E+00 3.0153E+001 1.0325E+01 1.0325E+01 3.2496E-03 6.0685E-02 1.9844E-01 6.6301E-02 2.9615E-03 2.97277E-06 1.7738E-09 1.1418E-14
P T RHO H A S GAME U SPECIES	HOVING SHOCK 3.2741E+03 1.3696E+02 1.0928E+01 7.1556E+02 1.4782E+01 1.9922E+00 2.1875E+00 7.2930E-01 4.2238E+01	STANDING SHOCK 2.8689E+04 2.1906E+02 5.0400E+01 1.2820E+03 2.0957E+01 2.1381E+00 2.5985E+00 7.7158E-01 9.2010E+00 - MOLE FRACTIONS 6.1516E-01 1.5747E-02 1.4426E-01 2.0370E-01 2.1022E-02 1.0771E-04 2.1137E-08 1.0928E-13	REFLECTED SHOCK 4.3041E+04 2.5446E+02 5.9737E+01 1.5765E+03 2.3835E+01 2.2375E+00 2.8315E+00 7.8849E-01 9.4540E+00 6.4668E-01 6.7999E-03 9.2270E-02 2.0862E-01 4.4591E-02 8.8519E-04 1.0275E-06 5.1058E-11		P T RHO H A S Z GAME U SPECIES E-A A + A + + A + + + A + + + A + + + A V I	MOVING SHOCK 3-7281E+03 1-6645E+02 1-1016E+01 8-1412E+02 1-5786E+01 2-0637E+00 2-3107E+00 4-5090E+01	STANDING SHOCK 3.2801E+04 2.3765E+02 5.0022E+01 1.4587E+03 2.2611E+01 2.2159E+00 2.7593E+00 7.7968E-01 9.9724E+00	REFLECTED SHOCK 4.9605E+04 2.7834E+02 5.9105E+01 1.8022E+03 2.5905E+01 2.322E+00 3.0153E+00 7.9956E-01 1.0325E+01 3.2496E-03 6.6836E-03 1.9844E-01 2.9615E-03 2.9615E-03 3.7738E-09

p_1 - 20 kN/ m^2

91 = 3	2.00E+04 N/SQ-H	I, US1= 1.65E+0	4 M/SEC	P1 = 2.	.00E+04 N/SQ-M	, US1= 1.75E+0	04 M/SEC.
· . · ·			•			-	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P ·	3.9651E+03	3.4859E+04	5-2923E+04	P	4.4603E+03	3.9046E+04	5.9774E+04
Ť.	1.5140E+02	2.4721E+02	2.9059E+02	Ť	1.6168E+02	2.6675E+02	3.1523E+02
RHO	1.1030E+01	4.9650E+01	5.8620E+01	RHD	1.1032E+01	4.8802E+01	5.7660E+01
H	8.6575E+02	1.5508E+03	1.9203E+03	H ·	9.7375E+02	1.7430E+03	2.1684E+03
Ā	1.63126+01	2.3465E+01	2.6945E+01	Ä	1.7378E+01	2.5197E+01	2.8975E+01
·ŝ	2.0997E+00	2.2548E+00	2.3638E+00	ŝ	2.1704E+00	2.3305E+00	2.4447E+00
ž	2.3743E+00	2.8400E+00	3.1069E+00	ž	2.5007E+00	2.9994E+00	3.2886E+00
GAME	7.4020E-01	7.8423E-01	8.0420E-01	GAME	7.4693E-01	7.9356E-01	8.0984E-01
Ü	4-6504E+01	1.0367E+01	1.0763E+01	Ű	4.9324E+01	1.1187E+01	1.1669E+01
٠.				•			•
SPECIE	s 	- MOLE FRACTIONS		SPECIES.		- MOLE FRACTIONS	
E-	5.7883E-01	6.4789E-01	6.7813E-01	£-	6.0011E-01	6.6660E-01	6.9592E-01
Ā	2.4000E-02	6.3257E-03	2.2229E-03	A .	1.5854E-02	3.3119E-03	1.0480E-03
Ā+	2.1824E-01	9.0008E-02	4.8366E-02	A+	1.7407E-01	6.2430E-02	3.0217E-02
A++	1.7623E-01	2.1023E-01	1.89116-01	A++	2.0386E-01	2.0113E-01	1.6502E-01
A+++	2.7116E-03	4.4762E-02	7.7157E-02	A+++	6.1056E-03	6.4212E-02	9.5666E-02
A++++	4.2005E-07	7.8551E-04	4.9882E-03	A+++	2.471 5E-06	2.3092E-03	1.19836-02
AV	6.6305E-13	7.4600E-07	2.6324E-05	AV	1.3347E-11	5.4892E-06	1.47948-04
AVI'	6.2799E-21	2.7755E-11	8.6658E-09	AVI -	5.8021E-19	6.4216E-10	1.4005E-07
AVII	1.1524E-31	2.5567E-17	1.1836E-13	1 I VA	7.7208E-29	2.4040E-15	6.8724E-12
IIIVA	4.2973E-45	4.2001E-25	4.7865E-20	AVIII	2.9539E-41	2.0629E-22	1.2419E-17
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	•						•
					•		*
01 =	2.00E+04 N/SQ-M	, US1= 1.70E+0	M M/SEC	P1 = 2.	00E+04 N/SQ-M	. US1= 1.80E+0	4 M/SEC
• • •							
,	MOVING SHOCK				MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
		CTAMOING CHOCK			MONTHO SHOCK	STRIUDING SHOCK	
•					4 7104E403	4 1147E404	
P	4.2094E+03	3.6958E+04	5.6351E+04	P .	4.7184E+03	4.1147E+04	6.3252E+04
T	4.2094E+03 1.5644E+02	3.6958E+04 2.5687E+02	5.6351E+04 3.0302E+02	1	1.6709E+02	2.76756+02	3.2763E+02
T RHD	4.2094E+03 1.5644E+02 1.1040E+01	3.6958E+04 2.5687E+02 4.9283E+01	5.6351E+04 3.0302E+02 5.8140E+01	T RHO	1.6709E+02 1.1014E+01	2.7675E+02 4.8289E+01	3.2763E+02 5.7086E+01
T	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03	T RHO H	1.6709E+02 1.1014E+01 1.0301E+03	2.7675E+02 4.8289E+01 1.8430E+33	3.2763E+02 5.7088E+01 2.2981E+03
T RHO H	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01	T RHO H A	1.6709E+02 1.1014E+01 1.0301E+03 1.7919E+01	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+01
T RHO H A S	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00	T RHO H A S	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00	2.7675E+02 4.8289E+01 1.8430E+33 2.6074E+01 2.3678E+00	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+01 2.4855E+00
T RHO H A S Z	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.4372E+00	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00	T RHO H A S S	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+C1 2.4855E+00 3.3819E+00
T RHO H A S Z GAME	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.4372E+00 7.4377E-01	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.8892E-01	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4649E+00 3.1986E+00 8.0770E-01	T RHO H A S	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+C1 2.4855E+00 3.3819E+00 8.1077E-01
T RHO H A S Z	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.4372E+00	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00	T RHO H A S S	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+C1 2.4855E+00 3.3819E+00
T RHO H A S Z GAME U	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.437ZE+00 7.4377E-01 4.7919E+01	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.889ZE-01 1.J777E+01	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00 8.0770E-01 1.1217E+01	T RHO H A S Z Game U	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01	3.2763E+02 5.708Be+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01
T RHO H A S Z GAME	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.437ZE+00 7.4377E-01 4.7919E+01	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.8892E-01	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00 8.0770E-01 1.1217E+01	T RHO H A S Z GAME U SPECIES	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01
T RHO H A S Z GAME U SPECIES	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.437ZE+00 7.4377E+01 4.7919E+01	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.8892E-01 1.J777E+01 - MOLE FRACTIONS 6.5746E-01	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00 8.0770E-01 1.1217E+01	T RHO H A S Z GAME U SPECIES E-	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01
T RHO H A S GAME U SPECIES	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 7.4377E+01 4.7919E+01	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 7.8892E-01 1.J777E+01 - MOLE FRACTIONS 6.5746E+01 4.6014E-03	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00 8.0770E+01 1.1217E+01	T RHD H A S Z GAME U SPECIES E- A	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01 - MOLE FRACTIONS 6.7521E-01 2.3732E-03	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01
T RHO H A S Z GAME U SPECIES	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.437ZE+00 7.4377E-01 4.7919E+01 5.8969E-01 1.9661E-02 1.957ZE-01	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.8892E-01 1.J777E+01 - MOLE FRACTIONS 6.5746E-01 4.6014E-03 7:5402E-02	5.6351 e-04 3.0302e+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00 8.0770E-01 1.1217E+01	T RHO H A S Z GAME U SPECIES E- A	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01 - MOLE FRACTIONS 6.7521E-01 2.3732E-03 5.1262E-02	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01
T RHO H A S Z GAME U SPECIES E- A A+	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.4372E+00 7.4377E+01 4.7919E+01 5.8969E-01 1.9661E-02 1.9572E-01 1.9082E-01	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.8892E-01 1.J777E+01 - MOLE FRACTIONS 6.5746E-01 4.6014E-03 7.5402E-02 2.0691E-01	5.6351E+06 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00 8.0770E-01 1.1217E+01 6.8736E-01 1.5179E-03 3.8229E-02 1.7765E-01	T RHD H A S Z GAME U SPECIES E- A A+ A++	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01 	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01 -MOLE FRACTIONS 6.7521E-01 2.3732E-03 5.1262E-02 1.9324E-01	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01 7.0430E-01 7.2061E-04 2.3671E-02 1.5120E-01
T RHO H A S Z GAME U SPECIES	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 7.4377E-01 4.7919E+01 5.8969E-01 1.9661E-02 1.9572E-01 1.9082E-01 4.1124E-03	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.8892E-01 1.J777E+01 - MOLE FRACTIONS 6.5746E-01 4.6014E-03 7.5402E-02 2.0691E-01 5.4246E-01	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00 8.0770E+01 1.1217E+01 6.8736E+01 1.5179E+03 3.8229E+02 1.7765E+01 8.7203E+02	T RHO H A S Z GAME U SPECIES E- A A+ A++ A++	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01 	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01 - MOLE FRACTIONS 6.7521E-01 2.3732E-03 5.1262E-02 1.9324E-01 7.4173E-02	3.2763E+02 5.7088+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01 7.0430E-01 7.2061E-04 2.3671E-02 1.5120E-01
T RHO H A S Z GAME U SPECIES E- A A+	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.437ZE+00 7.4377E-01 4.7919E+01 5.8969E-01 1.9661E-02 1.957ZE-01 1.908ZE-01 4.1124E-03 1.0345E-06	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.8892E-01 1.J777E+01 - MOLE FRACTIONS 6.5746E-01 4.6014E-03 7.5402E-02 2.0691E-01 5.4246E-02 1.3732E-03	5.6351 e-06 3.0302e+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00 8.0770E-01 1.1217E+01 6.8736E-01 1.5179E-03 3.8229E-02 1.7765E-01 8.7203E-02 7.9720E-03	T RHO H A S Z GAME U SPEC IES E- A+ A++ A++ A+++	1.6709E+02 1.0101E+03 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01 	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01 - MOLE FRACTIONS 6.752LE-01 2.3732E-03 5.1262E-02 1.9324E-01 7.4173E-02 3.7199E-03	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01
T RHO H A S Z GAME U SPECIES	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.437ZE+00 7.437ZE+01 4.7919E+01 5.8969E-01 1.9661E-02 1.957ZE-01 1.908ZE-01 4.1124E-03 1.0345E-06 3.0391E-12	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 7.8892E+01 1.J777E+01 - MOLE FRACTIONS 6.5746E+01 4.6014E+03 7.5402E+02 2.0691E+01 5.4246E+02 1.3732E+03 2.0841E+003	5.6351E+04 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00 8.0770E-01 1.1217E+01 6.8736E-01 1.5179E-03 3.8229E-02 1.7765E-01 6.7203E-02 7.9720E-03 6.5643E-05	T RHD H A S Z GAME U SPECIES E- A A+ A++ A++ A++	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01 	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01 - MOLE FRACTIONS 6.752LE-01 2.3732E-03 5.1262E-02 1.9324E-01 7.4173E-02 3.7199E-03 1.3526E-05	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01 7.0430E-01 7.2061E-04 2.3671E-02 1.5120E-01 1.7290E-02 3.1318E-04
T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.4372E+00 7.4377E-01 4.7919E+01 5.8969E-01 1.9661E-02 1.9572E-01 1.9082E-01 4.1124E-03 1.0345E-06 3.0391E-12 6.2132E-20	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.8892E+01 1.J777E+01 - MOLE FRACTIONS 6.5746E+01 4.6014E+03 7.5402E+02 2.0691E+01 5.4426E+02 1.3732E+03 2.0841E+06 1.3929E+10	5.6351 e 104 3.0302e +02 5.8140E +01 2.0427E +03 2.7979E +01 2.4049E +00 3.1986E +00 8.0770E -01 1.1217E +01 6.8736E -01 1.5179E -03 3.6229E -02 1.7765E -01 8.7203E -02 7.9720E -03 6.5643E -05 3.7583E -08	T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01 	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01 - MOLE FRACTIONS 6.7521E-01 2.3732E-03 5.1262E-02 1.9324E-01 7.4173E-02 3.7199E-03 1.3526E-05 2.6870E-09	3.2763E+02 5.7088+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01 7.0430E-01 7.2061E-04 2.3671E-02 1.5120E-01 1.0250E-01 1.7290E-02 3.1318E-04 4.7662E-07
T RHO H A S Z GAME U SPECIES E-A A+A+++A++++A++++AV	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.437ZE+00 7.4377E-01 4.7919E+01 5.8969E-01 1.9661E-02 1.957ZE-01 1.9082E-01 4.1124E-03 1.0345E-06 3.0391E-12 6.2132E-20 3.1087E-30	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.8892E-01 1.J777E+01 - MOLE FRACTIONS 6.5746E-01 4.6014E-03 7.5402E-02 2.0691E-01 5.4246E-02 1.3732E-03 2.0841E-06 1.3929E-10 2.6319E-16	5.6351E+06 3.0302E+02 5.8140E+01 2.0427E+03 2.7979E+01 2.4049E+00 3.1986E+00 8.0770E-01 1.1217E+01 6.8736E-01 1.5179E-03 3.8229E-02 1.7765E-01 8.7203E-02 7.9720E-03 6.5643E-05 3.7583E-08 1.0038E-12	T RHO H A S Z GAME U SPECIES E- A A + A + + + A + + + + A Y A Y I A Y I I	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01 	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01 - MOLE FRACTIONS 6.7521E-01 2.3732E-03 5.1262E-02 1.9324E-01 7.4173E-02 3.7199E-03 1.3526E-05 2.6870E-09 1.9167E-14	3.2763E+02 5.7088E+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01 7.0430E-01 7.2061E-04 2.3671E-02 1.5120E-01 1.7290E-02 3.1318E-04 4.7662E-07 4.148E-11
T RHO H A S Z GAME U SPECIES E-A A +++ A+++ AVI	4.2094E+03 1.5644E+02 1.1040E+01 9.1897E+02 1.6840E+01 2.1350E+00 2.4372E+00 7.4377E-01 4.7919E+01 5.8969E-01 1.9661E-02 1.9572E-01 1.9082E-01 4.1124E-03 1.0345E-06 3.0391E-12 6.2132E-20	3.6958E+04 2.5687E+02 4.9283E+01 1.6457E+03 2.4323E+01 2.2926E+00 2.9194E+00 7.8892E+01 1.J777E+01 - MOLE FRACTIONS 6.5746E+01 4.6014E+03 7.5402E+02 2.0691E+01 5.4426E+02 1.3732E+03 2.0841E+06 1.3929E+10	5.6351 e 104 3.0302e +02 5.8140E +01 2.0427E +03 2.7979E +01 2.4049E +00 3.1986E +00 8.0770E -01 1.1217E +01 6.8736E -01 1.5179E -03 3.6229E -02 1.7765E -01 8.7203E -02 7.9720E -03 6.5643E -05 3.7583E -08	T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	1.6709E+02 1.1014E+01 1.0301E+03 1.7919F+01 2.2057E+00 2.5639E+00 7.4951E-01 5.0730E+01 	2.7675E+02 4.8289E+01 1.8430E+03 2.6074E+01 2.3678E+00 3.0790E+00 7.9783E-01 1.1610E+01 - MOLE FRACTIONS 6.7521E-01 2.3732E-03 5.1262E-02 1.9324E-01 7.4173E-02 3.7199E-03 1.3526E-05 2.6870E-09	3.2763E+02 5.7088+01 2.2981E+03 2.9972E+01 2.4855E+00 3.3819E+00 8.1077E-01 1.2128E+01 7.0430E-01 7.2061E-04 2.3671E-02 1.5120E-01 1.0250E-01 1.7290E-02 3.1318E-04 4.7662E-07

P1 = 5	-00E+04 N/ SQ-M	, US 1= 2.00E+0	3 M/SEC		P1 =	5.00E+04 N/SQ-M	. US1= 2.40E+0	3 M/SEC
100					,			
			REFLECTED SHOCK	*				REFLECTED SHOCK
P	4.7899E+01	'8. 4638E+01	2.6431E+02	P	•	6.9070E+01	1.2778E+02	3.8238E+02
T	1:2892E+01	1.6278E+01.	2.9203E+01	Ţ		1.8181E+01	2.3402E+01	3.9024E+01
RHO	3.7155E+00.	5.1997E+00	9-3468E+00	R	HO	3.7990E+00	. 5.4599E+00	9.7291E+00
н '	1.2892E+01	1.6278E+01	2.9322E+01	н		1.8181E+01	2.3411E+01	4.1122E+01
Α .	3.5905E+00	4.0345E+00	5.3405E+00	A		4.2636E+00	4.8299E+00	5.8047E+00
S .	1.1305E+00	1.1312E+00	1.1484E+00	S		1.1560E+00	1.1569E+00	1-1740E+00
Ž	1.0000E+00	1.0000E+00	1.0004E+00	Ž		1.0000E+00	1-0000E+00	1.0072E+00
GAME	1.0000E+00	9.9998E-01	9.7622E-01	Ğ	AME 1		9.9680E-01	8.5732E-01
U	4.5391E+00	3.23205+00	3.1602E+00	Ū		5.4900E+00	3.8012E+00	3.5231E+00
		WOLF FORESTIONS		_				
SPECIES		- MOLE FRACTIONS			PECIE	5	- MOLE FRACTIONS	
E- '	6.5910E-10	9.2341E-08		E-		8.3742E-07	3.5557€-05	7.0998E-03
A _	1.0000E+00	1.0000E+00	9.9913E~01	A		1.0000E+00	9.9993E-01	9.8580E-01
A+	6.5910E-10	9.2341E-08	4.3312E-04	A+		8.3742E-07	3.5557E-05	7.0998E-03
A++	7.2307E-35	3.9016E-28	6.8394E~15	Δ+	.	1.4802E-24	8.8552E-19	1.0373E-10
A+++	1.1755E-75	2.6358E-60	8.0773E-34	Δ+	++	3.4252E-54	1.8016E-42	9.5018E-25
A++++	0.	0.	3.1550E-63		***	0.	1.1199E-78	1.9796E-46
AV.	0.	0.	0.	AV		0.	0.	2.3471E-75
AVI	0.	0.	0.		ι	0.	0.	0.
AVII	0.	o.	0.		ir 🗀	ŏ .	. 0.	0.
AVIII	0.	0.	. 0.		iii	0.	0.	0.
~~~~	••	••	•••		•••	••	• •	
			•					
•								
•								
						5.00E+04 N/SQ-M		
P1 = 5	.00E+04 N/ SQ-H	, US1= 2.20E+0	3 M/SEC		P1 -		I, US1= 2.60E+0	13 M/SEC
P1 = 5	.00E+04 N/ SQ-H	, US1= 2.20E+0	3 M/SEC		P1 -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1, USI= 2.60E+C	13 H/SEC
P1 = 5					<b>-1</b> -			
P1 = 5	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	g		MOVING SHOCK	STANDING SHOCK 1.5278E+02	
, 4, <b>p</b> → 1, 1	MOVING SHOCK 5+8003E+01	STANDING SHOCK 1.0487E+02	REFLECTED SHOCK 3.2192E+02		·. ·	MOVING SHOCK 8.1081E+01	STANDING SHOCK 1.5278E+02	REFLECTED SHOCK 4.4403E+02
P T	MOVING SHOCK 5.8003E+01 1.5416E+01	STANDING SHOCK 1.0487E+02 1.9658E+01	REFLECTED SHOCK 3-2192E+02 3-4424E+01	i		MOVING SHOCK 8.1081E+01 2.1181E+01	STANDING SHOCK 1.5278E+02 2.7419E+01	REFLECTED SHOCK 4.4403E+02 4.2781E+01
P T RHO	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00	1 P	но	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01
P T	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01	P F	.HO	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01
P T RHO H	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01 4.4330E+00	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00	R H	.но !	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.5998E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00
P T RHO H	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1437E+00	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01 4.4339E+00 1.1445E+00	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.1617E+00	R H A S	.HO	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.5998E+00 1.1675E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00
P T RHO H A S	MDVING SHOCK 5-8003E+01 1-5416E+01 3-7624E+00 1-5416E+01 3-9263E+00 1-1437E+00 1-000E+00	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01 4.4330E+00 1.1445E+00 1.0000E+00	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.1617E+00 1.0023E+00	R H A S	.но !	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.5998E+00 1.1675E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00
P T RHO H A S Z GAME	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1437E+00 1.0000E+00 9.999E-01	STANDING SHOCK 1.0487E+02 1.9659E+01 5.3347E+00 1.9659E+01 4.4339E+00 1.1445E+00 1.0000E+00 9.9966E-01	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.1617E+00 1.0023E+00 9.2173E-01	P A S	HO AME	MOVING SHOCK 8.1081E+01 2-1181E+01 3.8279E+00 2.1184E+01 4.599E+00 1.1675E+00 1.0000E+00 9.9889E-01	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00 9.8312E-01	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00 8.1047E-01
P T RHO H A S	MDVING SHOCK 5-8003E+01 1-5416E+01 3-7624E+00 1-5416E+01 3-9263E+00 1-1437E+00 1-000E+00	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01 4.4330E+00 1.1445E+00 1.0000E+00	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.1617E+00 1.0023E+00	P A S	.но !	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.5998E+00 1.1675E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00
P T RHO H A S Z GAME	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1437E+00 1.000E+00 9.999E-01 5.0154E+00	STANDING SHOCK 1.0487E+02 1.9659E+01 5.3347E+00 1.9659E+01 4.4339E+00 1.1445E+00 1.0000E+00 9.9966E-01	REFLECTED SHOCK 3-2192E+02 3-4424E+01 9-3298E+00 3-5090E+01 5-6395E+00 1-1617E+00 1-0023E+00 9-2173E-01 3-3762E+00	P P P S S Z Z	HO AME	MOVING SHOCK 8.1081E+01 2-1181E+01 3.8279E+00 2-1184E+01 4.599EE+00 1.1675E+00 1.000E+00 9.9889E-01 5.9620E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00 9.8312E-01	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00 8.1047E-01 3.5803E+00
P T RHO H A S Z GAME U SPECIES	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1437E+00 1.0000E+00 9.9999E-01 5.0154E+00	STANDING SHOCK 1.0487E+02 1.9650E+01 5.3347E+00 1.9659E+01 4.4330E+00 1.1445E+00 1.0000E+00 9.9966E-01 3.5252E+00	REFLECTED SHOCK 3.2192E+02 3.442E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.1617E+00 1.0023E+00 9.2173E-01 3.3762E+00	A S S C	HO AME	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.5998E+00 1.1675E+00 1.0000E+00 9.9889E-01 5.9620E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00 9.8312E-01 4.0769E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00 8.1047E-01 3.5803E+00
P T RHO H A S Z GAME U SPECIES	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1437E+00 1.000E+00 9.999E-01 5.0154E+00	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01 4.4330E+00 1.1445E+00 1.0000E+00 9.9966E-01 3.5252E+00  - MOLE FRACTIONS 2.6449E-06	REFLECTED SHOCK 3-2192E+02 3-4424E+01 9-3298E+00 3-5090E+01 5-6395E+00 1-1617E+00 1-0023E+00 9-2173E-01 3-3762E+00	1 R S Z Z U	HO AME	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.599E+00 1.1675E+00 1.000E+00 9.989E-01 5.9620E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00 9.8312E-01 4.0769E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00 8.1047E-01 3.5803E+00
P T RHO H A S Z GAME U SPECIES E-	MDVING SHOCK 5-8003E+01 1-5416E+01 3-76-24E+00 1-5416E+01 3-92-63E+00 1-1437E+00 1-0000E+00 9-9999E-01 5-0154E+00	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01 4.4330E+00 1.1445E+00 1.0000E+00 9.9766E-01 3.5252E+00  - MOLE FRACTIONS 2.6449E-06 9.9999E-01	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.1617E+00 1.0023E+00 9.2173E-01 3.3762E+00	T R A S C C C C	HO AME PECI	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.599BE+00 1.1675E+00 1.000DE+00 9.9889E-01 5.9620E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00 9.8312E-01 4.0769E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00 8.1047E-01 3.5803E+00
P T RHO H A S Z GAME U SPECIES E- A A + 30 - 141	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1437E+00 1.0000E+00 9.999E-01 5.0154E+00 3.6859E-08 1.0000E+00 3.6859E-08	STANDING SHOCK 1.0487E+02 1.965BE+01 5.3347E+00 1.9659E+01 4.4339E+00 1.1445E+00 1.0000E+00 9.9966E-01 3.5252E+00  - MOLE FRACTIONS 2.6449E-06 9.9999E-01 2.6449F-06	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.1617E+00 1.0023E+00 9.2173E-01 3.3762E+00	1 R S S C U	HO AME PECI	MOVING SHOCK 8.1081E+01 2-1181E+01 3.8279E+00 2.1184E+01 4.5998E+00 1.1675E+00 1.0000E+00 9.9889E-01 5.9620E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00 9.8312E-01 4.0769E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00 8.1047E-01 3.5803E+00  1.4558E-02 9.7088E-01 1.4558E-02
P T RHO H A S Z GAME U SPECIES E-A A+A+A+A+A-A-A-A-A-A-A-A-A-A-A-A-A-A-A	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1437E+00 1.0000E+00 9.999E-01 5.0154E+00 3.6859E-08 3.6859E-08 3.6859E-08 3.6859E-08	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01 4.4339E+00 1.1445E+00 1.0000E+00 9.9966E-01 3.5252E+00  - MOLE FRACTIONS 2.6449E-06 9.9999E-01 2.6449E-06 1.1657E-22	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.0023E+00 9.2173E-01 3.3762E+00  2.3416E-03 9.9532E-01 2.3416E-03 2.2617E-12	1 R A S C C U	HO AME PECIO	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.5998E+00 1.1675E+00 1.000E+00 9.9889E-01 5.9620E+00 ES	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1084E+00 1.0003E+00 9.8312E-01 4.0769E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00 8.1047E-01 3.5803E+00  1.4558E-02 9.7088E-01 1.4558E-02 1.2725E-09
P T RHO H A S Z GAME U SPECIES E-A A + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.0000E+00 9.9999E-01 5.0154E+00 3.6859E-08 1.0000E+00 3.6859E-08 3.6859E-08 3.6859E-08	STANDING SHOCK 1.0487E+02 1.9659E+01 5.3347E+00 1.9659E+01 4.4339E+00 1.1445E+00 1.0000E+00 9.9966E-01 3.5252E+00	REFLECTED SHOCK 3.2192E+02 3.442E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.1617E+00 1.0023E+00 9.2173E-01 3.3762E+00  2.3416E-03 9.9532E-01 2.3416E-03 2.2617E-12 2.4149E-28	1 R A S C C C C C C	HO AME PECII	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.5998E+00 1.000E+00 9.9889E-01 5.9620E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00 9.8312E-01 4.0769E+00	REFLECTED SHOCK
P T RHO H A S Z GAME U SPECIES E- A + 4+++ A++++	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1437E+00 1.0000E+00 9.999E-01 5.0154E+00 3.6859E-08 1.0000E+00 3.6859E-08 3.4688E-29 4.1945E-65 0.	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01 4.4339E+00 1.1445E+00 1.0000E+00 9.9966E-01 3.5252E+00  - MOLE FRACTIONS 2.6449E-06 9.9999E-01 2.6449E-06 1.1657E-22	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.0123E+00 9.2173E-01 3.3762E+00	1 R S C U S S C U U A A A A A	HO     AME   PECIO	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.5998E+00 1.1675E+00 1.000E+00 9.9889E-01 5.9620E+00 ES	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00 9.8312E-01 4.0769E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00 8.1047E-01 3.5803E+00  1.4558E-02 9.7088E-01 1.4558E-02 1.2725E-09 2.2468E-22 4.8068E-42
P T RHO H A S Z GAME U SPECIES E-A A + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.0000E+00 9.9999E-01 5.0154E+00 3.6859E-08 1.0000E+00 3.6859E-08 3.6859E-08 3.6859E-08	STANDING SHOCK 1.0487E+02 1.9659E+01 5.3347E+00 1.9659E+01 4.4339E+00 1.1445E+00 1.0000E+00 9.9966E-01 3.5252E+00	REFLECTED SHOCK 3.2192E+02 3.442E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.1617E+00 1.0023E+00 9.2173E-01 3.3762E+00  2.3416E-03 9.9532E-01 2.3416E-03 2.2617E-12 2.4149E-28	1 R A S C C C C C C	HO     AME   PECIO	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.5998E+00 1.1675E+00 1.9000E+00 9.9889E-01 5.9620E+00 ES  1.0072E-05 9.9998E-01 1.0072E-05 9.9998E-01 1.0072E-05 9.2684E-21 9.9647E-47 0.	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00 9.8312E-01 4.0769E+00	REFLECTED SHOCK
P T RHO H A S Z GAME U SPECIES E- A + 4+++ A++++	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1437E+00 1.0000E+00 9.999E-01 5.0154E+00 3.6859E-08 1.0000E+00 3.6859E-08 3.4688E-29 4.1945E-65 0.	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01 4.4339E+00 1.1445E+00 1.0000E+00 9.9966E-01 3.5252E+00  - MOLE FRACTIONS 2.6449E-06 9.9999E-01 2.6449F-06 1.1657E-22 9.1823E-51 0.	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.0123E+00 9.2173E-01 3.3762E+00	1 R S C U S S C U U A A A A A	HO AME PECIO + +++	MOVING SHOCK 8.1081E+01 2-1181E+01 3.8279E+00 2.1184E+01 4.599EE+00 1.1675E+00 1.0000E+00 9.9889E-01 5.9620E+00	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1684E+00 1.0003E+00 9.8312E-01 4.0769E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00 8.1047E-01 3.5803E+00  1.4558E-02 9.7088E-01 1.4558E-02 1.2725E-09 2.2468E-22 4.8068E-42
P T RHO H A S Z GAME U SPECIES E-A A+A++++++++++++++++++++++++++++++++	MDVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9263E+00 1.1437E+00 1.0000E+00 9.999E-01 5.0154E+00 3.6859E-08 1.0000E+00 3.6859E-08 3.6859E-08 3.6859E-08	STANDING SHOCK 1.0487E+02 1.9658E+01 5.3347E+00 1.9659E+01 4.4339E+00 1.1445E+00 1.0000E+00 9.9966E-01 3.5252E+00  - MOLE FRACTIONS 2.6449E-06 9.9999E-01 2.6449E-06 1.1657E-22 9.1823E-51 0.	REFLECTED SHOCK 3.2192E+02 3.4424E+01 9.3298E+00 3.5090E+01 5.6395E+00 1.1617E+00 1.0023E+00 9.2173E-01 3.3762E+00	1 R A S C C C C C C C C C C C C A A A A A A	HO AME PECIO + +++	MOVING SHOCK 8.1081E+01 2.1181E+01 3.8279E+00 2.1184E+01 4.5998E+00 1.1675E+00 1.9000E+00 9.9889E-01 5.9620E+00 ES  1.0072E-05 9.9998E-01 1.0072E-05 9.9998E-01 1.0072E-05 9.2684E-21 9.9647E-47 0.	STANDING SHOCK 1.5278E+02 2.7419E+01 5.5706E+00 2.7492E+01 5.1927E+00 1.1084E+00 1.0003E+00 9.8312E-01 4.0769E+00	REFLECTED SHOCK 4.4403E+02 4.2781E+01 1.0228E+01 4.7263E+01 5.9317E+00 1.1855E+00 1.0148E+00 8.1047E-01 3.5803E+00  1.4558E-02 9.7088E-01 1.4558E-02 1.2725E-09 2.2468E-22 4.8068E-42 3.7532E-68

	N/SQ-M. US1= 2.80E+	-03 M/SEC	P1 = 5	-00E+04 N/SQ-M	, US1= 3.20E+0	3 M/SEC
*		•	•			•
MOVING	SHOCK STANDING SHOCK	DEEL COTED CHOCK	*	MONTHE CHOCK	STANDING SHOCK	REFLECTED SHOCK
P. 9.412		REFLECTED SHOCK 5.0885E+02	.ρ	MOVING SHOCK	2.7172E+02	· 6.5703E+02
				1.2355E+02	4.0316E+01	5.1230E+01
		4.5945E+01	T	3.1315E+01		
		.1.0809E+01	RHO	3.9400E+00	6.6641E+00	1.2226E+01
H 2.4434		5.3653E+01	н	3.1703E+01	4.3657E+01	6.7544E+01
4. 926		6.0591E+00	A '	5.4315E+00	5.8010E+00	6.3264E+00
S 1.178		1.1970E+00	S	1.1980E+00	1.2001E+00	1.2202E+00
Z 1.0001		1.0246E+00	. 1	-1.0014E+00	1.0113E+00	1.0490E+00
GAME, 9.9380		7.7985F-01	GAME	9.4078E-01	8.2534E-01	7.4475E-01
Ugr, 25 6.4371	7E+00 4.2921E+00	3.5893E+00	U	7.4133E+00	4.3697E+00	3.5455E+00
10.00					•	•
SPECIES	MULE FRACTION	is	SPECÍES		- MOLE FRACTIONS	
F- 7.404	47E-05 1.3284E-03	2.4024E-02	E-	1.3960E-03	1.1219E-02	4.6709E-02
A pagg . 9.998			Ā	9.9721F-01	9.7756E-01	9.0658E-01
			Â÷		1.1219E-02	
				1.3960E-03		18.64788-08
	15E-18 2.3108E-13		A++	2.0955E-13	3.8403F-10	
	66F-40 1.2725E-30		A+++	8.0260E-31	1.2700E-23	2.3939E-18
	76E-74 2.6996E-57		A++++	8.4591E-58	1.8448E-44	1. 2036E-34
AV 0 •	1.4622E-92		AV	0.	4.2253E-72	2.1985E-56
AVI - 214 O.	0.	0.	I VA	0.	0.	5. 2561E-84
AVII.	0.	· 0.	IIVA	0-	0.	0.
AVIII 0.	0.	0.	AVIII	0.	0.	0.
	*					
•						
P1 = 5.00E+04	N/SO-M, US1= 3.00E+	03 H/SEC	P1 = 5	.00E+04 N/SQ-M	, US1= 3.40E+0	3 M/SEC
		• :			•	
MOVING	SHOCK STANDING SHOCK	DEELECTED SHOCK			4	
Par e 1.0821				MUNING CHUCK	STANDING SHOCK	DEELECTED CHOCK.
	EAD2 2 2144EAD2				STANDING SHOCK	REFLECTED SHOCK
T		5.7825E+02	P	1.4044E+02	3.3569E+02	.7.5183E+02
T 2.7829	9E+01 3.6148E+01	5.7825E+02 4.8702E+01	T	1.4044E+02 3.4686E+01	3.3569E+02 4.4069E+01	7.5183E+02 5.3652E+01
RHO - 3.8867	9E+01 3.6148E+01 7E+00 6.0984E+00	5.7825E+02 4.8702E+01 1.1459E+01	T RHO	1.4044E+02 3.4686E+01 4.0334E+00	3.3569E+02 4.4069E+01 7.4556E+00	7.5183E+02 5.3652E+01 1.3179E+01
RHO 2 3.8867 H 2.7933	9E+01 3.6148E+01 7E+00 6.0984E+00 3E+01 3.7459E+01	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01	T RHO H	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01
RHO 2.7933 A 5.2155	7E+01 3.6148E+01 7E+00 6.0984E+00 3E+01 3.7459E+01 5E+00 5.6610E+00	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00	T RHO H	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00
RHO 2 3.8867 H 2.7933 A 5.2155 S 1.1884	PE+01 3.6148E+01 PE+00 6.0984E+00 BE+01 3.7459E+01 BE+00 5.6610E+00 BE+00 1.1898E+00	5-7825E+02 4-8702E+01 1-1459E+01 6-0357E+01 6-1903E+00 1-2085E+00	T RHO H A S	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00
RHO 2 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004	PE+01 3.6148E+01 PE+00 6.0984E+00 PE+01 3.7459E+01 PE+00 5.6610E+00 PE+00 1.1898E+00 PE+00 1.0046E+00	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00	T RHO H A S	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 1.0038E+00	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 1.0217E+00	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00
RHO 2 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708	## 01 3.6148E+01 ## 00 6.098E+00 ## 01 3.7459E+01 ## 02 5.6610E+00 ## 02 1.1898E+00 ## 02 1.0046E+00 ## 01 8.8251E-01	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01	T RHO M A S Z GAME	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 1.0038E+00 8.9059E-01	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 1.0217E+00 7.8629E-01	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01
RHO 2 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173	## 01 3.6148E+01 ## 00 6.098E+00 ## 01 3.7459E+01 ## 02 5.6610E+00 ## 02 1.1898E+00 ## 02 1.0046E+00 ## 01 8.8251E-01	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00	T RHO H A S	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 1.0038E+00	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 1.0217E+00	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00
RHO 2 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708	## 01 3.6148E+01 ## 00 6.098E+00 ## 01 3.7459E+01 ## 02 5.6610E+00 ## 02 1.1898E+00 ## 02 1.0046E+00 ## 01 8.8251E-01	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01	T RHO M A S Z GAME	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 1.0038E+00 8.9059E-01	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 1.0217E+00 7.8629E-01	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01
RHO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173	## 01 3.6148E+01 ## 00 6.098E+00 ## 01 3.7459E+01 ## 02 5.6610E+00 ## 02 1.1898E+00 ## 02 1.0046E+00 ## 01 8.8251E-01	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01 3.5725E+00	T RHO M A S Z GAME	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 1.0038E+00 8.9059E-01 7.9385E+00	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 1.0217E+00 7.8629E-01	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00
RHO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173	## 101 3.6148E+01 ## 105 6.0984E+00 ## 105 6.0984E+00 ## 105 6.6610F+00 ## 106 1.1898E+00 ## 10046E+00 ## 10046E+00 ## 10046E+00 ## 10046E+00 ## 10046E+00 ## 10046E+00	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01 3.5725E+00	T RHD H A S Z GAME U	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 8.9059E-01 7.9385E+00	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 7.8629E-01 4.2796E+00	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00
RHO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173 SPECIES	## 101 3.6148E+01 ## 102 3.7459E+01 ## 103 3.745	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01 3.5725E+00	T RHO H A S G GAME U SPECIES	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 1.0038E+00 8.9059E-01 7.9385E+00	3.3569E-02 4.4069E-01 7.4556E-00 5.0670E-01 5.9501E-00 1.2104E-00 1.0217E-00 7.8629E-01 4.2796E+00	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00
RHO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173 SPECIES ————————————————————————————————————	## 101	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01 3.5725E+00  S 3.4837E-02 9.3033E-01	T RHO H A S Z GAME U SPECIES E- A	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 8.9059E-01 7.9385E+00	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 7.8629E-01 4.2796E+00  - MOLE FRACTIONS 2.1243E-02 9.5751E-01	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00
RHO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173 SPECIES	## 101	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01 3.5725E+00  S 3.4837E-02 9.3033E-01 3.4837E-02	T RHD H A S Z GAME U SPECIES E- A A+	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 1.0038E+00 8.9059E-01 7.9385E+00	3.3569E-02 4.4069E-01 7.4556E-00 5.0670E-01 5.9501E-00 1.2104E-00 1.0217E-00 7.8629E-01 4.2796E+00 - MOLE FRACTIONS 2.1243E-02 9.5751E-01 2.1243E-02	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00  5.9490E-02 8.8102E-01 5.59489E-02
RHO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173 SPECIES	## 101	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01 3.5725E+00  S 3.4837E-02 9.3033E-01 3.4837E-02 2.8997E-08	T RHO H A S Z GAME U SPECIES E-A A A+A	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 1.0038E+00 8.9059E-01 7.9385E+00 3.8213E-03 9.9236E-01 3.8213E-03 6.6678E-12	3.3569E-02 4.4069E-01 7.4556E-00 5.0670E-01 5.9501E-00 1.2104E-00 1.0217E-00 7.8629E-01 4.2796E+00  - MOLE FRACTIONS 2.1243E-02 9.5751E-01 2.1243E-02 3.7866E-09	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.468EE+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00  5.9490E-02 8.8102E-01 5.9489E-02 2.1984E-07
RHO 3.8887 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173 SPECIES	## 101	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01 3.5725E+00  S 3.4837E-02 9.3033E-01 3.4837E-02 2.8997E-08 2.1318E-19	T RHO H A S Z GAME U SPECIES E- A A++ A+++	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 8.9059E-01 7.9385E+00 3.8213E-03 6.6678E-12 1.3758E-27	3.3569E+02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 7.6629E-01 4.2796E+00  - MOLE FRACTIONS 2.1243E-02 9.5751E-01 2.1243E-02 3.7866E-09 1.9404E-21	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.468E+00 1.232ZE+00 1.0633E+00 7.3346E-01 3.5185E+00  5.9490E-02 8.8102E-01 5.9489E-02 2.1984E-07 1.9284E-17
RHO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173 SPECIES	## 101	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01 3.5725E+00  S 3.4837E-02 9.3033E-01 3.4837E-02 2.8997E-08 2.1318E-19 1.4194E-36	T RHD H A S Z GAME U SPECIES E- A A+ A++ A+++	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 8.9059E-01 7.9385E+00 3.8213E-03 9.9236E-01 3.8213E-03 6.6678E-12 1.3758E-27 4.8215E-52	3.3569E-02 4.4069E-01 7.4556E-00 5.0670E-01 5.9501E+00 1.2104E-00 1.0217E-00 7.8629E-01 4.2796E+00  - MOLE FRACTIONS 2.1243E-02 9.5751E-01 2.1243E-02 3.7866E-09 1.9404E-21 1.9490E-40	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00  5.9490E-02 8.8102E-01 2.1984E-07 1.9284E-17 5.7132E-33
RHO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173 SPECIES	## 101	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01 3.5725E+00  3.4837E-02 9.3033E-01 3.4837E-02 2.8997E-08 2.1318E-19 1.4194E-36 1.9500E-59	T RHO H A S Z GAME U SPECIES E-A A +++++ A++++ A+++++ A+++++ A++++++	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 8.9059E-01 7.9385E+00  3.8213E-03 9.9236E-01 3.8213E-03 6.6678E-12 1.3758E-27 4.8215E-52 9.1205E-84	3.3569E-02 4.4069E-01 7.4556E-00 5.0670E-01 5.9501E-00 1.2104E-00 7.8629E-01 4.2796E+00  - MOLE FRACTIONS 2.1243E-02 9.5751E-01 2.1243E-02 3.7866E-09 1.9404E-21 1.9490E-40 1.0605E-65	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.468E+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00  5.9490E-02 8.8102E-01 5.9489E-02 2.198E-07 1.9284E-17 5.7132E-33 1.0816E-53
RHO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173 SPECIES	## 101	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5540E+01 3.5725E+00  S 3.4837E-02 9.3033E-01 3.4837E-02 2.8997E-08 2.1318E-19 1.4194E-36 1.9500E-59 2.1432E-88	T RHD H A S Z GAME U SPECIES E A A + A + A + + A + + A + A V A VI	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 8.9059E-01 7.9385E+00 3.8213E-03 6.6678E-12 1.3758E-27 4.8215E-52 9.1205E-84 0.	3.3569E-02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 1.0217E+00 7.8629E-01 4.2796E+00  - MOLE FRACTIONS 2.1243E-02 9.5751E-01 2.1243E-02 3.7866E-09 1.9496E-21 1.9490E-40 1.0605E-65 0.	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00  5.9490E-02 8.8102E-01 5.9489E-02 2.1988E-07 1.9284E-17 5.7132E-33 1.0816E-53 5.3933E-80
RNO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173 SPECIES	## 101	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5940E-01 3.5725E+00  S 3.4837E-02 9.3033E-01 3.4837E-02 2.8997E-08 2.1318E-19 1.4194E-36 1.9500E-59 2.1432E-88 0.	T RHD H A S Z GAME U SPECIES E- A A+ A++ A+++ AV AVI AVI I	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 1.0038E+00 8.9059E+01 7.9385E+00 3.8213E-03 9.9236E-01 3.8213E-03 6.6678E-12 1.3758E-27 4.8215E-52 9.1205E-84 0.	3.3569E-02 4.4069E-01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 1.0217E+00 7.8629E-01 4.2796E+00  - MOLE FRACTIONS 2.1243E-02 9.5751E-01 2.1243E-02 3.7866E-09 1.9404E-21 1.9406E-65 0.0	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00  5.9490E-02 8.8102E-01 2.1984E-07 1.9284E-17 5.7132E-33 1.0816E-53 5.3933E-80 0.
RHO 3.8867 H 2.7933 A 5.2155 S 1.1884 Z 1.0004 GAME 9.7708 U 6.9173 SPECIES	## 101	5.7825E+02 4.8702E+01 1.1459E+01 6.0357E+01 6.1903E+00 1.2085E+00 1.0361E+00 7.5540E+01 3.5725E+00  S 3.4837E-02 9.3033E-01 3.4837E-02 2.8997E-08 2.1318E-19 1.4194E-36 1.9500E-59 2.1432E-88	T RHD H A S Z GAME U SPECIES E A A + A + A + + A + + A + A V A VI	1.4044E+02 3.4686E+01 4.0334E+00 3.5769E+01 5.5686E+00 1.2073E+00 8.9059E-01 7.9385E+00 3.8213E-03 6.6678E-12 1.3758E-27 4.8215E-52 9.1205E-84 0.	3.3569E-02 4.4069E+01 7.4556E+00 5.0670E+01 5.9501E+00 1.2104E+00 1.0217E+00 7.8629E-01 4.2796E+00  - MOLE FRACTIONS 2.1243E-02 9.5751E-01 2.1243E-02 3.7866E-09 1.9496E-21 1.9490E-40 1.0605E-65 0.	7.5183E+02 5.3652E+01 1.3179E+01 7.5396E+01 6.4684E+00 1.2322E+00 1.0633E+00 7.3346E-01 3.5185E+00  5.9490E-02 8.8102E-01 5.9489E-02 2.1984E-07 1.9284E-17 5.7132E-33 1.0816E-53 5.3933E-80

P1 = 5.	00E+04 N/SQ-M,	US1= 3.60E+03 P	4/SEC	P1 = 5.	00E+04 N/SQ-M.	US1= 4.00E+0	3 M/SEC
2.							
	MOVING SHOCK ST	TANDING SHOCK DI	EFLECTED SHOCK		HOWENC CHOCK	ETANDING CHOCK	APPLICATED SIMPLE
	1.5907E+02	4.1424E+02	8.6865E+02	ο .		STANDING SHOCK	REFLECTED SHOCK
T	3.7781E+01	4.7421E+01		ī	2.0151E+02	6.1864E+02	1.1774E+03
	4.1759E+00	8.4411E+00	5.6037E+01 1.4370E+01	RHO .	4.2999E+01	5.3262E+01	6.0733E+01
KNU *				H	4.5815E+00	1.0893E+01	1-74316+01
A	4.0149E+01	5.8388E+01	8.4038E+01	A	4.9820E+01	7. 5673E+01	1.0364E+02
S	5.6665E+00	6.1129E+00	6.6166E+00		5.8621E+00 ·	6.4517E+00	6.9225E+00
	1.2164E+00	1.2210E+00	1.2445E+00	S	1.2349E+00	1.2436E+00	1.2707E+00
	1.0082E+00	1.0349E+00	1.0787E+00	Z	1.0229E+00	1.0663E+00	1.1122E+00
GAME:	8.4293E-01	7.6146E-01	7.2422E-01	GAME ''	7.8132E-01	7.3291E-01	7.0948E-01
	8.4992E+00	4.1856E+00	3.4963E+00	U	9.7028E+00	4.0727E+00	3.4689E+QQ
						1000	
SPECIES		OLE FRACTIONS		SPECIES		MOLE FRACTIONS	<+;
3, 20123	·	1022 111101 1010		JECTES		HOLE LIMEL INÍA	
F	8.1684E-03	3.3680E-02 ··	7.2990E-02	E-	2.2362F-02	- 6.2180E-02	1.0085E-01
Ā	9.8366E-01	9.3264E-01	8.5402E-01	- Ā .	9.5528E-01	8.7564E-01	7.9831E-01
Ã+	8.1684E-03	~3.3680E-02 .	7.2989E-02	Ã÷ .	2.2362E-02	6.2180E-02	1.0084E-01
A++	9.2725E-11	2.0797E-08	5.0010E-07	A++	3.2270E-09	2.2634E-07	
A+++	4.2429E-25	8.4828E-20	1. 2325E-16	A+++	1.0049E-21	1.8169E-17	2.9617E-15
A++++	2.1902E-47	2.1002E-37	1.7738E-31	A++++	4.22256-41	4.4281E-33	6.5164E-29
AV.		7.3810E-61	2.6359E-51	AV	7.4186E-67	6.0944E-54	3. 3375E-47
AVI	-0.	1.2629E-90	1. 7259E- 76	ÄVI	0.	1.7759E-80	1.74846-70
IIVA	0.	0.	0.	AVII	.0.	0.	0.
AVIÏI	0.	0.	0.	111VA	0.	0.	0.
	••	<b>.</b>	<b>v.</b>	M4411		•	•
		•					: :
							4 177
							1 4
		ı	*				
P1 = 5.	.00E+04 N/SQ-M.	ÚS 1= 3.80E+03 ∤	M/SEC	P1 = 5.	.00E+04 N/SQ-M,	US 1= 4.20E+0	3 M/SEC
P1 = 5.	.00E+04 N/SQ-M.	US1= 3.80E+03 P	M/SEC	P1 = 5.	.00E+04 N/SQ-M.		3 M/SEC
				P1 = 5	.00E+04 N/SQ-M.	US 1= 4.20E+0	
	MOVING SHOCK ST	TANDING SHOCK RE	EFLECTED SHOCK	P1 = 5	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK ST	TANDING SHOCK RE	EFLECTED SHOCK	P	MOVING SHOCK 2.2509E+02	STANDING SHOCK 7.4917E+02	REFLECTED SHOCK 1.3697E+03
P	MOVING SHOCK ST 1.7946E+02 4.0542E+01	TANDING SHOCK RE 5.0765E+02 5.0449E+01	EFLECTED SHOCK 1.0103E+03 5.8399E+01	<b>P</b> T	MOVING SHOCK 2.2509E+02 4.5206E+01	STANDING SHOCK 7.4917E+02 5.5922E+01	REFLECTED SHOCK
P T	MOVING SHOCK ST 1.7946E+02 4.0542E+01 4.3625E+00	FANDING SHOCK RE 5.0765E+02 5.0449E+01 9.5845E+00	EFLECTED SHOCK	P T RHO	MOVING SHOCK 2.2509E+02	STANDING SHOCK 7.4917E+02	REFLECTED SHOCK 1.3697E+03
P	MOVING SHOCK ST 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01	FAND ING SHOCK RE 5.0765E+02 5.0449E+01 9.5845E+00 6.6712E+01	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01	P T RHO H	MOVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01	STAND ING SHOCK 7.4917E+02 5.5922E+01 1.2363E+01 8.5265E+01	REFLECTED SHOCK 1.3697E+03 # 6.3032E+01
P T RHO	MOVING SHOCK ST 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00	FAND ING SHOCK RE 5.0765E+02 5.0749E+01 9.5845E+00 6.6712E+01 6.2814E+00	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01	P T RHO H	MOVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00	STANDING SHOCK 7.4917E+02 5.5922E+01 1.2363E+01	REFLECTED SHOCK 1.3697E+03 6.303ZE+01 1.9240E+03
P T RHO H	MOVING SHOCK S1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00	FAND ING SHOCK RE 5.0765E+02 5.0449E+01 9.5845E+00 6.6712E+01 6.2814E+00 1.2321E+00	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.7687E+00 1.2574E+00	P T RHO H A S	MOVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.2444E+00	STAND ING SHOCK 7.4917E+02 5.5922E+01 1.2363E+01 8.5265E+01	REFLECTED SHOCK 1.3697E+03 4 6.303ZE+01 1.9240E+08 1.1447E+02 - 1.1447E+07 - 1.1447
P T RHO H A S Z	MOVING SHICK S1 1-7946E+02 4-0542E+01 4-3625E+00 4-4838E+01 5-7606E+00 1-2256E+00	FANDING SHOCK RE 5.0765E+02 5.0449E+01 9.5845E+00 6.6712E+01 6.2814E+00 1.2321E+00 1.0499E+00	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.579TE+01 9.3473E+01 6.768TE+00	P T RHO H A S Z	MDVING SHOCK 2-2509E+02 4-5206E+01 4-8223E+00 5-508IE+01 5-9703E+00	STANDING SHOCK 7.4917E+02 5.5922E+01 1.2363E+01 8.5265E+01 6.6212E+00	REFLECTED SMOCK 1.3697E+03 6.3032E+01 1.9240E+01 1.1447E+02 7.0765E+00
P T RHO H	MOVING SHICK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01	FANDING SHOCK RE 5-0765E+02 5-0749E+01 9-5845E+00 6-6712E+01 6-2814E+00 1-2321E+00 1-0499E+00 7-4493E-01	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.7687E+00 1.2574E+00	P T RHO H A S	MOVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.2444E+00	STANDING SHOCK 7-4917E+02 5-5922E+01 1-2363E+01 8-5265E+01 6-6212E+00 1-2557E+00	REFLECTED SHOCK 1.3697E+03 4 6.3032E+01 1.9240E+01 1.1447E+02 7.0765E+00 1.2845E+00 1.12945E+00 1.0342E-01
P T RHO H A S Z	MOVING SHICK S1 1-7946E+02 4-0542E+01 4-3625E+00 4-4838E+01 5-7606E+00 1-2256E+00	FANDING SHOCK RE 5.0765E+02 5.0449E+01 9.5845E+00 6.6712E+01 6.2814E+00 1.2321E+00 1.0499E+00	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797F+01 9.3473E+01 6.7687E+00 1.2574E+00 1.0952E+00	P T RHO H A S Z	MOVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.2444E+00 1.0325E+00	STANDING SHOCK 7. 4917E+02 5.5922E+01 1. 2363E+01 8.5265E+01 6.6212E+00 1.2557E+00 1.0836F+00	REFLECTED SHOCK 1.3697E+03 4 6.3032E+01 1.9240E+01 1.1447E+02 7.0765E+00 1.2845E+00 1.1294E+00 0
P T RHO H A S Z	MOVING SHICK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01	FANDING SHOCK RE 5-0765E+02 5-0749E+01 9-5845E+00 6-6712E+01 6-2814E+00 1-2321E+00 1-0499E+00 7-4493E-01	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.579TE+01 9.3473E+01 6.768TE+00 1.2574E+00 1.0952E+00 7.1635E-01	P T RHO H A S Z GAME	MDVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.2444E+00 1.0325E+00 7.6366E-01	STANDING SHOCK 7-4917E+02 5-5922E+01 1-2363E+01 8-5265E+01 6-6212E+00 1-2557E+00 1-0836E+00 7-2348E-01	REFLECTED SHOCK 1.3697E+03 4 6.3032E+01 1.9240E+01 1.1447E+02 7.0765E+00 1.2845E+00 1.12945E+00 1.0342E-01
P T RHO A S Z GAME U	MOVING SHOCK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01 9.0905E+00	FAND ING SHOCK RE 5-0765E+02 5-0449E+01 9-5845E+00 6-6712E+01 6-2814E+00 1-2321E+00 1-0499E+00 7-4493E-01 4-1250E+00	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.7687E+00 1.2574E+00 1.0952E+00 7.1635E-01 3.4800E+00	P T RHO H A S Z GAME U	MDVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.2444E+00 1.0325E+00 7.6366E-01	STANDING SHOCK 7-4917E+02 5-5922E+01 1-2363E+01 6-6212E+00 1-2557E+00 1-0836E+00 7-2348E-01 4-0136E+00	REFLECTED SHOCK 1.3697E+03 6.3032E+01 1.9240E+01 1.1447E+02 7.0765E+00 1.2845E+00 1.1294E+00 1.3.4620E+00
P T RHO H A S Z	MOVING SHOCK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01 9.0905E+00	FANDING SHOCK RE 5-0765E+02 5-0749E+01 9-5845E+00 6-6712E+01 6-2814E+00 1-2321E+00 1-0499E+00 7-4493E-01	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.7687E+00 1.2574E+00 1.0952E+00 7.1635E-01 3.4800E+00	P T RHO H A S Z GAME	MDVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.2444E+00 1.0325E+00 7.6366E-01	STANDING SHOCK 7-4917E+02 5-5922E+01 1-2363E+01 8-5265E+01 6-6212E+00 1-2557E+00 1-0836E+00 7-2348E-01	REFLECTED SHOCK 1.3697E+03 6.3032E+01 1.9240E+01 1.1447E+02 7.0765E+00 1.2845E+00 1.1294E+00 1.3.4620E+00
P T RHO A S Z GAME U	MOVING SHICK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01 9.0905E+00	FANDING SHOCK RE 5-0765E+02 5-0765E+02 9-5845E+00 6-6712E+01 6-281E+00 1-2321E+00 1-0492E+00 7-4493E-01 4-1250E+00	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.579TE+01 9.3473E+01 6.768TE+00 1.2574E+00 1.0952E+00 7.1635E-01 3.4800E+00	P T RHO H A S Z GAME U	MDVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.0325E+00 7.6366E-01 1.0328E+01	STANDING SHOCK 7. 4917E+02 5. 5922E+01 1. 2363E+01 8. 5265E+01 6. 6212E+00 1. 2557E+00 1. 0836E+00 7. 2348E-01 4. 0136E+00  MOLE FRACTIONS	REFLECTED SHOCK 1.3697E+03 6.3032E+03 1.9240E+03 1.1447E+02 7.0765E+00 1.2845E+00 1.1294E+00 7.0342E-01 3.4620E+00
P T RHO A S Z GAME U	MOVING SHOCK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01 9.0905E+00	FANDING SHOCK RE 5-0765E+02 5-0449E+01 9-5845E+00 6-6712E+01 6-2814E+00 1-2321E+00 1-0499E+00 7-4493E-01 4-1250E+00 SOLLE FRACTIONS4-7528E-02	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.7687E+00 1.2574E+00 1.0952E+00 7.1635E-01 3.4800E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.2444E+00 1.0325E+00 7.6366E-01 1.0328E+01	STANDING SHOCK 7. 4917E+02 5. 5922E+01 1. 2363E+01 6. 6212E+00 1. 2557E+00 1. 0836E+00 7. 2348E-01 4. 0136E+00 MOLE FRACTIONS 7.7154E-02	REFLECTED SHOCK 1.3697E+03 6.3032E+01 1.9240E+01 1.1447E+02 7.0765E+00 1.2945E+00 1.1294E+00 7.0342E+01 3.4620E+00 1.1459E+01 1.1459
P T RHO A S Z GAME U	MOVING SHOCK S1 1-7946E+02 4-0542E+01 4-3625E+00 4-4838E+01 5-7606E+00 1-2256E+00 1-0147E+00 8-0669F-01 9-0905E+00	FANDING SHOCK RE 5.0765E+02 5.0449E+01 9.5845E+00 6.6712E+01 6.2814E+00 1.2321E+00 7.4493E-01 4.1250E+00 COLE FRACTIONS	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.768TE+00 1.2574E+00 1.0952E+00 7.1635E-01 3.4800E+00	P T RHO H A S Z GAME U SPECIES E-A	MOVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.0325E+00 7.6366E-01 1.0328E+01	STANDING SHOCK 7. 4917E+02 5. 5922E+01 1. 2363E+01 8. 5265E+01 6. 6212E+00 1. 2557E+00 7. 2348E-01 4. 0136E+00  MOLE FRACTIONS 7.7154E-02 8.4569E-01	REFLECTED SHOCK 1.3697E+03 6.3032E+01 1.940E+01 1.1447E+02 7.0765E+00 1.1294E+00 7.0342E-01 3.4620E+00 1.1459E-01 7.7082E-01
P T RHO H A S Z GAME U SPECIES E-A C C SEP A+	MOVING SHOCK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01 9.0905E+00	FANDING SHOCK RE 5-0765E+02 5-0745E+01 9-5845E+00 6-6712E+01 1-2321E+00 1-2321E+00 1-44752E+00 1-4-1250E+00 1-4-752E-02 -9-0494E+01 4-752E-02 1-752E-02	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.7687E+00 1.2574E+00 1.0952E+00 7.1635E-01 3.4800E+00  8.6886E-02 8.2623E-01 8.6884E-02	P T RHO H A S Z GAME U SPECIES E- A A+	MDVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.2444E+00 1.0325E+01 1.0328E+01	STANDING SHOCK 7.4917E+02 5.5922E+01 1.2363E+01 8.5265E+01 6.6212E+00 1.2557E+00 1.0836E+01 7.2348E-01 4.0136E+00  MOLE FRACTIONS 7.7154E-02 8.4569E-01 7.7153E-02	REFLECTED SHOCK 1.3697E+03 6.3032E+01 1.92+00E+01 1.14+7E+02 7.0765E+00 1.2845E+00 1.129E+00 1.0342E-01 3.4620E+00 1.1459E-01 1.1459
PTTRHOHAASZZGAMEUUSPECIESEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MOVING SHOCK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01 9.0905E+00	FAND ING SHOCK RE 5-0765E+02 5-0449E+01 9-5845E+00 6-6712E+01 6-2814E+00 1-0499E+00 7-4493E-01 4-1250E+00 MOLE FRACTIONS4-7528E-02 7-7705E-08	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.7687E+00 1.2574E+00 1.0952E+00 7.1635E-01 3.4800E+00  8.6886E-02 8.2623E-01 8.6884E-02 1.0404E-06	P T RHO H A S Z GAME U SPECIES E-A A+A++	MOVING SHOCK 2-2509E+02 4-5206E+01 4-8223E+00 5-5081E+01 5-9703E+00 1-2444E+00 1-0325E+00 7-6366E-01 1-0328E+01 3-1511E-02 9-3698E-01 3-1511E-02 1-1139E-08	STANDING SHOCK 7. 4917E+02 5. 5922E+01 1. 2363E+01 6. 6212E+00 1. 2557E+00 1. 0836E+00 7. 2348E-01 4. 0136E+00 MOLE FRACTIONS 7.7154E-02 8.4569E-01 7.7153E-02 5.5425E-07	REFLECTED SHOCK 1.3697E+03 6.3032E+01 1.9240E+03 1.1447E+02 7.0765E+00 1.2945E+00 1.1294E+00 7.0342E-01 3.4620E+00 1.1459E-01 7.7032E-01 1.1459E-01 3.6256E-06
P T RHO H A S Z GAME U SPECIES E-A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+	MOVING SHOCK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01 9.0905E+00 1.4453E-02 9.7109E-01 1.4453E-02 6.8508E-10 3.3978E-23	FAND ING SHOCK RE 5-0765E+02 5-0765E+02 5-0449E+01 9-5845E+00 6-6712E+01 6-2814E+00 1-2321E+00 1-049E+00 7-4493E-01 4-1250E+00 HOLE FRACTIONS4-7528E-02 7-7705E-08 1-6249E-18	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.579TE+01 9.3473E+01 6.768TE+00 1.0952E+00 7.1635E-01 3.4800E+00  8.6886E-02 8.2623E-01 8.6884E-02 1.0404E-06 6.5384E-16	P T RHO H A S Z GAME U SPECIES E- A A + A + + A + + A + + + A + + + + +	MDVING SHOCK 2-2509E+02 4-5206E+01 4-8223E+00 5-5081E+01 5-9703E+00 1-0325E+00 1-0325E+01 3-1511E-02 9-3698E-01 3-1511E-02 1-1139E-08 1-5290E-20	STAND ING SHOCK 7-4917E+02 5-5922E+01 1-2363E+01 8-5265E+01 6-6212E+00 1-0836E+00 1-0836E+00 4-0136E+00  MOLE FRACTIONS 7-7154E-02 8-4569E-01 7-7153E-02 5-5425E-07 1-4014E-16	REFLECTED SHOCK 1.3697E+03 6.303ZE+01 1.9240E+01 1.144TE+02 7.0765E+00 1.2845E+00 7.034ZE+01 3.4620E+00 1.159E+01 1.1459E+01 1.159E+01 1.159E+01 1.159E+01 1.1651E+1
P T RHO H A S Z GAME U SPECIES E-A+A+A+++A+++	MOVING SHOCK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.0147E+00 8.0669F-01 9.0905E+00 1.4453E-02 9.7109E-01 1.4453E-02 6.8508E-10 3.978E-23 8.5060E-44	FAND ING SHOCK RE 5.0765E+02 5.0449E+01 9.5845E+00 6.6712E+01 6.281E+00 1.0499E+00 4.1250E+00 4.1250E+00 4.7528E-02 7.7705E-08 1.6249E-18 5.0515E-35	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.7687E+00 1.2574E+00 1.0952E+00 7.1635E-01 3.4800E+00  8.6886E-02 8.2623E-01 8.6884E-02 1.0404E-06 6.5384E-16 3.9119E-30	P T RHO H A S Z GAME U SPECIES E-A A + A + A + A + A + A + + A + + + A + + + + + + + + + + + + + + + + + + + +	MDVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.0325E+00 7.6366E-01 1.0328E+01 3.1511E-02 9.3698E-01 3.1511E-02 1.1139E-08 1.5290E-20 6.3308E-39	STANDING SHOCK 7.4917E+02 5.592E+01 1.2363E+01 8.5265E+01 6.6212E+00 1.2557E+00 1.0836E+00 7.2346E+01 4.0136E+00  MOLE FRACTIONS 7.7154E-02 8.4569E-01 7.7153E-02 5.5425E-07 1.4014E-16 1.9904E-31	REFLECTED SMOCK 1.3697E+03 6.3032E+01 1.9240E+01 1.1447E+02 7.0765E+00 1.2845E+00 1.1294E+00 1.3.4620E+00 1.1459E-01 7.7032E-01 1.1459E-01 3.6256E-06 1.1601E-14 8.4310E-28
P T RHO H A S Z GAME U SPECIES E-A+A+A+A+A+A-A-A-A-A-A-A-A-A-A-A-A-A-A-	MOVING SHOCK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01 9.0905E+00 1.4453E-02 9.7109E-01 1.4453E-02 6.8508E-10 3.3978E-23 8.5060E-44 4.0501E-71	FAND ING SHOCK RE 5-0765E+02 5-0449E+01 9-5845E+00 6-6712E+01 6-2814E+00 1-2321E+00 1-0499E+00 7-4493E-01 4-1250E+00 4-7528E-02 7-7705E-08 1-6249E-18 5-0515E-35 4-9538E-57	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.7687E+00 1.2574E+00 1.2574E+00 7.1635E-01 3.4800E+00  8.6886E-02 8.2623E-01 8.6884E-02 1.0404E-06 6.5384E-16 3.9119E-30 3.6705E-49	P T RHO H A S Z GAME U SPECIES E-A A+A+++A++++A++++A++++A++++A++++A+++	MOVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.2444E+00 1.0325E+01 7.6366E-01 1.0328E+01 3.1511E-02 9.3698E-01 3.1512E-08 1.5290E-20 6.3308E-39 2.1797E-63	STANDING SHOCK 7. 49 17E+02 5. 5922E+01 1. 2363E+01 6. 6212E+00 1. 2557E+00 1. 08 36E+00 7. 2348E-01 4. 01 36E+00  MOLE FRACTIONS 7.7154E-02 8.4569E-01 7.7153E-02 5.5425E-07 1.4014E-16 1.9904E-31 2.7204E-51	REFLECTED SHOCK 1.3697E+03 6.3032E+01 1.9240E+03 1.1447E+02 7.0765E+00 1.1294E+00 7.0342E-01 3.4420E+00 1.1459E-01 7.7032E-01 1.1458E-01 3.6256E-06 1.1661E-14-8 4310E-28 2.0327E-45
P T RHO H A S Z GAME U SPECIES E-A A A A A A A A A A A A A A A A A A A	MOVING SHOCK S1 1.7946E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01 9.0905E+00 1.4453E-02 9.7109E-01 1.4453E-02 6.8508E-10 3.3978E-23 8.5060E-44 4.0501E-71 0.	FAND ING SHOCK RE 5-0765E+02 5-0749E+01 9-5845E+00 6-6712E+01 6-2814E+00 1-2321E+00 1-0499E+00 7-447528E-02 7-7705E-08 1-6249E-18 5-0515E-35 4-9538E-35 4-9538E-35 6-1004E-85	8-6886E-02 8-6886E-02 8-6896E-01 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02	P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A++++ AV AVI	MDVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.0325E+00 7.6366E-01 1.0328E+01  3.1511E-02 9.3698E-01 3.1511E-02 1.1139E-08 1.5290E-20 6.3308E-39 2.1797E-63 0.	STANDING SHOCK 7.4917E+02 5.5922E+01 1.2363E+01 8.5265E+01 6.6212E+00 1.2557E+00 1.0836E+00 7.2348E-01 4.0136E+00  MOLE FRACTIONS 7.7154E-02 8.4569E-01 7.7153E-02 5.5425E-07 1.4014E-16 1.9904E-31 2.7204E-51 1.3650E-76	REFLECTED SHOCK 1.3697E+03 6.3032E+03 1.9240E+03 1.1447E+02 7.0765E+00 1.2845E+00 1.1294E+00 3.4620E+00 1.158E-01 3.6256E-06 1.1691E-14-8.4310E-28 2.0327E-45 7.3207E-68
P T RHO H A A S Z GAME U SPECIES E-A + A + + + + A + + + + A V I A V I A V I I	MOVING SHOCK S1 1.7946E+02 4.0542E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.0147E+00 8.0669F-01 9.0905E+00  1.4453E-02 9.7109E-01 1.4453E-02 6.8508E-10 3.3978E-23 8.5060E-44 4.0501E-71 0.	FAND ING SHOCK RE 5.0765E+02 5.0449E+01 9.5845E+00 6.6712E+01 6.281E+00 1.0499E+00 7.4493E-01 4.1250E+00 4.7528E-02 7.7705E-08 1.6249E-18 5.0515E-35 4.9538E-57 6.1004E-85 0.	EFLECTED SHOCK 1.0103E+03 5.8399E+01 1.5797E+01 9.3473E+01 6.7687E+00 1.2574E+00 1.0952E+00 7.1635E-01 3.4800E+00  8.6886E-02 8.2623E-01 8.6884E-02 1.0404E-06 6.5384E-16 3.9119E-30 3.6705E-49 2.3259E-73 0.	P T RHO H A S Z GAME U SPECIES E-A A+A+A+A+A+A AVI AVI I	MDVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.2444E+00 1.0325E+01 3.1511E-02 9.3698E-01 3.1511E-02 1.1139E-08 1.5290E-20 6.3308E-39 2.1797E-63 0.	STANDING SHOCK 7.4917E+02 5.5922E+01 1.2363E+01 8.5265E+01 6.6212E+00 1.2557E+00 1.0836E+00 7.2348E-01 4.0136E+00  MOLE FRACTIONS 7.7154E-02 8.4569E-01 7.7153E-02 5.5425E-07 1.4014E-16 1.9904E-31 2.7204E-51 1.3650E-76 0	REFLECTED SMOCK 1.3697E+03 6.3032E+01 1.9240E+01 1.1447E+02 7.0765E+00 1.2845E+00 1.1294E+00 7.0342E+01 3.4620E+00 1.1459E+01 3.6256E+06 1.1661E+14 8.4310E+28 2.0327E+45 7.3207E+68 0.
P T RHO H A S Z GAME U SPECIES E-A A A A A A A A A A A A A A A A A A A	MOVING SHOCK S1 1.7946E+01 4.3625E+00 4.4838E+01 5.7606E+00 1.2256E+00 1.0147E+00 8.0669F-01 9.0905E+00 1.4453E-02 9.7109E-01 1.4453E-02 6.8508E-10 3.3978E-23 8.5060E-44 4.0501E-71 0.	FAND ING SHOCK RE 5-0765E+02 5-0749E+01 9-5845E+00 6-6712E+01 6-2814E+00 1-2321E+00 1-0499E+00 7-447528E-02 7-7705E-08 1-6249E-18 5-0515E-35 4-9538E-35 4-9538E-35 6-1004E-85	8-6886E-02 8-6886E-02 8-6896E-01 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02 8-6886E-02	P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A++++ AV AVI	MDVING SHOCK 2.2509E+02 4.5206E+01 4.8223E+00 5.5081E+01 5.9703E+00 1.0325E+00 7.6366E-01 1.0328E+01  3.1511E-02 9.3698E-01 3.1511E-02 1.1139E-08 1.5290E-20 6.3308E-39 2.1797E-63 0.	STANDING SHOCK 7.4917E+02 5.5922E+01 1.2363E+01 8.5265E+01 6.6212E+00 1.2557E+00 1.0836E+00 7.2348E-01 4.0136E+00  MOLE FRACTIONS 7.7154E-02 8.4569E-01 7.7153E-02 5.5425E-07 1.4014E-16 1.9904E-31 2.7204E-51 1.3650E-76	REFLECTED SHOCK 1.3697E+03 6.3032E+03 1.9240E+03 1.1447E+02 7.0765E+00 1.2845E+00 1.1294E+00 3.4620E+00 1.158E-01 3.6256E-06 1.1691E-14-8.4310E-28 2.0327E-45 7.3207E-68

F1 -	3.40E+84 W 20-	1) 031- 4,406+0	יש און שבע	F1 ~ .	7.VUETU4 N/ 3U-	19 051-	)3 H/3EC
						•	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHO (	REFLECTED SHOCK
P	2.5013E+02	8.97425+02	1.58736+03	P	3.0429E+02	1.2554E+0.	2.0986E+03
Ť	4.7216E+01	5.8437E+01	6.5313E+01	Ť	5.0810E+01	6.3208E+01	6.9834E+01
RHO	5.0772E+00	1.3944E+01	2.1191E+01	, 8HO	5.6086E+00	1.7464E+01	2.5433E+01
	200.122.00						
н	6.0612E+01	9.5370E+01	1.2592E+02	H	7-2453E+01	1.17226+02	1.5056E+02
A	6-0826E+00	6.7869E+00	7.2310E+00	A	6.3122E+00	7.1096E+00	7.5417E+00
S	1.2542E+00	1.2683E+00	1.2990E+00	. <u>\$</u>	1.2747E+00	1.2953E+00	1.3293E+00
Z	1.0434E+00	1.1013E+00	1.1469E+00	Z	1.0678E+00	1.1372E+00	1.1816E+00
GAME	7.5102E-01	7.157LE-01	6.9805E-01	GAME	7.3440E-01	7.0318E-01	6.8930E-01
U.	1.0960F+01	3.9802E+00	3.4590E+00	บ	1.2231E+01	3.9117E+00	3.4638E+00
SPECIE	· S	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	4.1576E-02	9.1992E-02	1.2806E-01	E~	6.3487E-02	1.2068F-01	1.5369E-01
A	9.1685E-01	8.1602E-01	7.4389E-01	A	8.7303E-01	7.5864E-01	6.9264E-01
A+ -	4.1576E-02	9.1990E-02	1.2805E-01	A+	6.3486E-02	1.2067E-01	1.5366E-01
A++	3.0874E-08	1.1872E-06	6.2284E-06	A++	1.5367E-07	4.1784F-06	1.6288E-05
A+++	1.4413E-19	8.0791E-16	4.1346E-14	A+++	5.1222E-18	1.5086E-14	3.9839E-13
A++++	3.7730F-37	5.2367E-30	8.9453E-27	A++++	Z-8030E-34	1.2598E-27	6.1728E-25
AV :	1.2292E-60	5-2092E-49	9.0497E-44	AV	5.2612E-56	3.6335E-45	8.1228E-41
AVE	1.01965-90	3.1787E-73	1.9508E-65	IVA	1.3437E-83	1.63516-67	4.2365E-61
AVII	0.	0.	1.4064E-94	IIVA	0.	0.	3. 1962E-88
IIIVA	0.	0.	0.	IIIVA	. 0.	0.	0.
AVIII	0.	0.	0.	AVLII	0.	0.	0.
		•			•		
P1 ≠	5.00E+04 N/SQ-M	. US1= 4.60E+0	3 M/SEC	P1 = 5	.00E+04 N/SQ-M	, US1= 5.00E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ.	2.7654E+02	1.0653E+03	1.8302E+03	. р	3.3334E+02	1.46425+03	2.3940E+03
t	4.9074E+01	6.0853E+01	6.7569E+01	τ	5.2434E+01	6.5495E+01	7.2110E+01
RHO	5.3405E+00	1.5642E+01	2.3266E+01	ŔHO	5.8816E+00	1.9353E+01	2.7692E+01
н	6.6404E+01	1.0601E+02	1.3796E+02	н	7.8758E+01	1.2887E+02	1.6372E+02
Ā	6.1970E+00	6.9493E+00	7.3852E+00	A	6.4265E+00	7.2672E+00	7.7006E+00
Š.	1.2643E+00	1.2815E+00	1.3138E+00	Š	1.2853E+00	1.3096E+00	1.3452E+00
ž	1.0552E+00	1.11926+00	1.1642E+00	ž	1.0809E+00	1.1551E+00	
GAME	7.4163E-01	7.0905E-01		GAME	7.2869E-01	6.9806E-01	1.1989E+00
U			6.9335E-01	U	1.2866E+01		6.8595E-01
U	1.15956+01	3.9516E+00	3.4596E+00	U	1.20000+01	3.9001E+00	3.4723E+00
		WOLE 50.5***	-	******		MOLE CO. 60.	
SPECIE	3	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	5.2297E-02	1.0653E-01	1.4104E-01	E-	7.4851E-02	1.3429E-01	1.6587E-01
Α .	** 8.9541E-01	7.8694E-01	7.1793E-01	A	8.5030E-01	7.3143E-01	6.6828E-01
A+	5.2297E-02	1.0653E-01	·1.4102E-01	A+	7.4850E-02	1.3427E-01	1.6582E-01
A++ .	7.3082E-08	2.3086E-06	1.0228E-05	A++	2.9313E-07	7.1210E-06	2.5243E-05
A+++	9.7937E-19	3.77358-15	1.3269E-13	A+++	2.1703E-17	5.2726E-14	1.12786-12
A++++' .	1.33426-35	9.3657E-29	7. 9098E-26	A++++	4.0033E-33	1.3104E-26	4. 3220E-24
AV	4.1907E-58	5.4462E-47	2.9991E-42	AV	3.5981E-54	1.5654E-43	1.8573E-39
AVI	1.2022E-86	3.1766E-70	3. 3400E-63	JVA	6.3352E-81	4.1044E-65	4.2511E-59
AVII	0.	0.	2.9772E-91	IIVA	0.	4.5599E-94	2.5589E-85
711VA	0.	0.		IIIVA	0.	0.	0.
~****	<b>U•</b>	<b>U</b> •	0.	Aviit	J.	٠.	•

P1 = 5	.00E+04 N/SQ	∜8. μUS1= 5.20E+0	3 M/SEC		P1 = 9	5.00E+04 N/SQ-M	. US1= 5.60E+0	3 M/SEC
	MUNING SHUCK	STANDING SHOCK	REFLECTED SHOCK			MOUTHE SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.6368E+02	1.6938E+03	2.7139E+03		P		2.2200E+03	3.4348E+03
Ť	5.4012E+01	6.7753E+01	7.4417E+01		Ť	4.2813E+02		
RHO	6.1493E+00	2. 13146+01	2.9987E+01	•		5.6962E+01	7. 22546+01	7.9206E+01
H	8.5316E+01	1.4103E+02			RHO	6.6856E+00	2.5433E+01	3-4676E+01
A			1.7744E+02		H	9.9193E+01	1.6686E+02	2.0642E+02
ŝ	6.5430E+00	7. 4242E+00	7.8640E+00		A	6.7734E+00	7.7420E+00	8.2116E+00
	1.2965E+00	1.3244E+00	1.3615E+00		S	1.3195E+00	1.3555E+00	1.3953E+00
2	1.0950E+00	1.1729E+00	1.2161E+00		Z	1.1242E+00	1.2081E+00	1.2506E+00
GAME	7.2388E-01	6.9360E-01	6.8335E-01		GAME	7.1643E-01	6.8666E-01	6.8073E-01
U	1.3501E+01	3.88748+00	3.4848E+00	•	U	1.4764E+01	3.87216+00	3.5120E+00
SPECIES		- MOLE FRACTIONS			SPECIE	s	- MOLE FRACTIONS	
E	8.6724F-02	1.4742E-01	1.7771E-01		E_	1.1050E-01	1.7225E-01	2.0038E-01
Ā	8.2655E-01	7.0517E-01	6.4463E-01		E-	7.7901E-01	6.5552E-01	5.9933E-01
Â+	8.6723E-02	1.4740E-01	1.7763E-01		A			
A++	5.2850E-07	1.1622E-05	3.8375E-05		A+	1.1049E-01	1.7220E-01	2.0021E-01
A+++		1.67445-13			A++	1.44586-06	2.81846-05	8.5374E-05
A++++	8-1453E-17		3.0595E-12		A+++	7.9196E-16	1.37376-12	2.0743E-11
	4.5797E-32	1.13898-25	2. 7847E-23		A++++	3.0874E-30	5.8447E-24	9.8464E-22
AV	1.7188E-52	5.0509E-42	3.6899E-38		AV	1.4739E-49	2.8296E-39	1.1145E-35
IVA	1.6509E-78	6.7567E-63	3.4201E-57		AVI	3.69588-74	7.3887E-59	
IIVA	0.	7.6359E-91	1.4351E-82		AVII	0.	5.1836E-85	2.4124E-77
ITIVA	0.	0.	0.		AVIII	0.	0.,	0.
			14					
	٠.					•		5
	•							•
			•					
P1 = 5	.00E+04 N/SQ-M	, US1= 5.40E+0	3 M/SEC		P1 =	5.00E+04 N/SQ-M	• US 1= 5.80E+0	3 M/SEC
		•	;					
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.9528E+02	1.9479E+03	3.0590E+03		P	4.6223E+02	2.51535+03	3.8389E+03
T	5.5512E+01	7.0008E+01	7.6756E+01	•	T	5.8371E+01		
RHO								
Н	6.41865+00						7.4529E+01	8.1766E+01 3.7019E+01
	6.4186E+00	2.3370E+01	3.2318E+01		RHO	6.9494E+00	2.7538E+01	3.7019E+01
	9.2128E+01	2.3370E+01 1.5373E+02	3.2318E+01 1.9154E+02	· .	RHO H	6.9494E+00 1.0651E+02	2.7538E+01 1.8048E+02	3.7019E+01 2.2188E+02
A	9.2128E+01 6.6582E+00	2.3370E+01 1.5373E+02 7.5824E+00	3.2318E+01 1.9154E+02 8.0320E+00		RHO · H A	6.9494E+00 1.0651E+02 6.8885E+00	2.7538E+01 1.8048E+02 7.9058E+00	3.7019E+01 2.2188E+02 8.4032E+00
A S	9.2128E+01 6.6582E+00 1.3078E+00	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00		RHO · H A S	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00
A S Z	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00		RHD · H A S Z	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00 1.2256E+00	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00
A S Z GAME	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00 7.1988E-01	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00 6.8977E-01	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01		RHD + H A S Z GAME	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00 7.1342E-01	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00 1.2256E+00 6.8427E-01	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01
A S Z	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00		RHD · H A S Z	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00 1.2256E+00	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00
A S Z GAME	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00 7.1988E-01 1.4133E+01	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00 6.8977E-01	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E+01 3.4845E+00		RHD H A S Z GAME U	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00 7.1342E-01 1.5393E+01	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00 1.2256E+00 6.8427E-01	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00
A S Z GAME U SPECIES	9-2128E+01 6-6582E+00 1-3078E+00 1-1094E+00 7-1988E-01 1-4133E+01	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00 6.8977E-01 3.8641E+00	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01 3.4845E+00		RHO H A S Z GAME U	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00 7.1342E-01 1.5393E+01	2. 7538E+01 1. 8048E+02 7. 9058E+00 1. 3716E+00 1. 2756E+00 6. 842TE-01 3. 8775E+00	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00
A S Z GAME U SPECIES	9.2128E+01 6.6582E+00 1.3078E+00 1.1994E+00 7.1988E-01 1.4133E+01	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00 6.8977E-01 3.8641E+00	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E+01 3.4845E+00		RHO H A S Z GAME U SPECIE:	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+01 7.1342E-01 1.5393E+01	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00 1.2256E+00 6.8427E-01 3.8775E+00 - MOLE FRACTIONS 1.8404E-01	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00
A S Z GAME U SPECIES E	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00 7.1988E-01 1.4133E+01 9.8578E-02 8.0284E-01	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.3397E+00 6.8977E-01 3.8641E+00 - MOLE FRACTIONS 1.6007E-01 6.7987E-01	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01 3.4845E+00		RHD H A S Z GAME U SPECIE:	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00 7.1342E-01 1.5393E+01	2. 7538E+01 1.8048E+02 7. 9058E+00 1. 3716E+00 1. 2256E+00 6. 842TE-01 3. 8775E+00  - MOLE FRACTIONS 1. 8404E-01 6. 3196E-01	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00
A S Z GAME U SPECIES E A A+	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00 7.1988E-01 1.4133E+01 9.8578E-02 8.0284E-01 9.8576E-02	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00 6.8977E-01 3.8641E+00 - MOLE FRACTIONS 1.6007E-01 6.7987E-01 1.6004E-01	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01 3.4845E+00		RHD H A S Z GAME U SPECIE: E- A A	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00 7.1342E-01 1.5393E+01 S	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00 1.2256E+00 6.8427E-01 3.8775E+00  - MOLE FRACTIONS 1.8404E-01 6.3196E-01 1.8396E-01	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00 2.1152E-01 5.7709E-01 2.1127E-01
A S Z GAME U SPECIES E A A+ A++	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00 7.1988E-01 1.4133E+01 9.8578E-02 8.0284E-01 9.8576E-02 8.9434E-07	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.906E+00 6.8977E-01 3.8641E+00 - MOLE FRACTIONS 1.6007E-01 6.7987E-01 1.6004E-01 1.8356E-05	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01 3.4845E+00		RHD H A S Z GAME U SPECIE: E- A A+ A++	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00 7.1342E-01 1.5393E+01 S	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00 1.2256E+00 6.8427E-01 3.8775E+00 - MOLE FRACTIONS 1.8404E-01 6.3196E-01 1.8396E-01 4.2476E-05	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00 2.1152E-01 5.7709E-01 2.1127E-01 1.2680E-04
A S Z GAME U SPECIES E A A+ A++	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00 7.1988E-01 1.4133E+01 9.8578E-02 8.0284E-01 9.8576E-02 8.943E-07 2.6694E-16	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00 6.8977E-01 3.8641E+00  - MOLE FRACTIONS 1.6007E-01 6.7987E-01 1.6004E-01 1.8356E-05 4.9513E-13	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01 3.4845E+00		RHD H A S Z GAME U SPECIE: E-A A++ A++	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00 7.1342E-01 1.5393E+01 S	2.7538E+01 1.8048E+02 7.9058E+00 1.2756E+00 1.2256E+00 6.8427E-01 3.8775E+00  - MOLE FRACTIONS 1.8404E-01 6.3196E-01 4.2476E-05 3.6583E-12	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00 2.1152E-01 5.7709E-01 2.1127E-01 1.2680E-04 5.3615E-11
A S Z GAME U SPECIES E- A A A++ A+++ A++++	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00 7.1988E-01 1.4133E+01 9.8578E-02 8.0284E-01 9.8576E-02 8.9434E-07 2.6694E-16 4.1273E-31	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00 6.8977E-01 3.8641E+00 - MOLE FRACTIONS 1.6007E-01 6.7987E-01 1.6004E-01 1.8356E-05 4.9513E-13 8.6693E-25	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01 3.4845E+00 1.8907E-01 6.2192E-01 1.8895E-01 5.7299E-05 7.9787E-12 1.6629E-22		RHD H A S Z GAME U SPECIE: E- A A+ A++ A+++	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00 7.1342E-01 1.5393E+01 S	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00 1.2756E+00 6.8427E-01 3.8775E+00  - MOLE FRACTIONS 1.8404E-01 6.3196E-01 1.8396E-01 4.2476E-05 3.6583E-12 3.6642E-23	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00 2.1152E-01 5.7709E-01 2.1127E-01 1.2680E-04 5.3615E-11 5.7485E-21
A S Z GAME U SPECIES E- A A ++ A++ A+++ A+++ A	9.2128E+01 6.6582E+00 1.3078E+00 7.198E-01 1.4133E+01 9.8578E-02 8.0284E-01 9.8576E-02 8.9434E-07 2.6694E-16 4.1273E-31 5.8871E-51	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.906E+00 6.8977E-01 3.8641E+00 - MOLE FRACTIONS 1.6007E-01 6.7987E-01 1.6004E-01 1.8356E-05 4.9513E-13 8.6693E-25 1.3193E-40	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01 3.4845E+00		RHD H A S Z GAME U SPECIE: E-A A++ A++	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00 7.1342E-01 1.5393E+01 S	2.7538E+01 1.8048E+02 7.9058E+00 1.2756E+00 1.2256E+00 6.8427E-01 3.8775E+00  - MOLE FRACTIONS 1.8404E-01 6.3196E-01 4.2476E-05 3.6583E-12	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00 2.1152E-01 5.7709E-01 2.1127E-01 1.2680E-04 5.3615E-11
A S Z GAME U SPECIES E- A A + A + + + A + + + A V A VI	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00 7.1988E-01 1.4133E+01 9.8578E-02 8.0284E-01 9.8576E-02 8.9434E-07 2.6694E-16 4.1273E-31 5.8871E-51 3.2429E-76	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00 6.8977E-01 3.8641E+00  - MOLE FRACTIONS 1.6007E-01 6.7987E-01 1.8356E-05 4.9513E-13 8.6693E-25 1.3193E-40 8.1738E-61	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01 3.4845E+00 1.8907E-01 6.2192E-01 1.8895E-01 5.7299E-05 7.9787E-12 1.6629E-22		RHD H A S Z GAME U SPECIE: E- A A+ A++ A+++	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.395E+01 1.5393E+01 S	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00 1.2756E+00 6.8427E-01 3.8775E+00  - MOLE FRACTIONS 1.8404E-01 6.3196E-01 1.8396E-01 4.2476E-05 3.6583E-12 3.6642E-23	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00 2.1152E-01 5.7709E-01 2.1127E-01 1.2680E-04 5.3615E-11 5.7485E-21
A S Z GAME U SPECIES E A A+ A++ A+++ AV AVII	9.2128E+01 6.6582E+00 1.3078E+00 7.198E-01 1.4133E+01 9.8578E-02 8.0284E-01 9.8576E-02 8.9434E-07 2.6694E-16 4.1273E-31 5.8871E-51	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.3397E+01 3.8641E+00 - MOLE FRACTIONS 1.6007E-01 6.7987E-01 1.6004E-01 1.8356E-05 4.9513E-13 8.6693E-25 1.3193E-40 8.1738E-61 7.7696E-81	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01 3.4845E+00 		RHO H A S Z GAME U SPECIE: E- A A+ A+++ AV+++ AV	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+01 1.5393E+01  S 1.2243E-01 7.5515E-01 1.2242E-01 2.2509E-06 2.1634E-15 1.9736E-29 2.8325E-48	2.7538E+01 1.8048E+02 7.9058E+00 1.3716E+00 1.2256E+00 6.8427E-01 3.8775E+00  - MOLE FRACTIONS 1.8404E-01 6.3196E-01 1.8396E-01 4.2476E-05 3.6583E-12 3.6442E-23 5.3445E-38	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00 2.1152E-01 5.7709E-01 2.1127E-01 1.2680E-04 5.3615E-11 5.7485E-21 1.8736E-34
A S Z GAME U SPECIES E- A A + A + + + A + + + A V A VI	9.2128E+01 6.6582E+00 1.3078E+00 1.1094E+00 7.1988E-01 1.4133E+01 9.8578E-02 8.0284E-01 9.8576E-02 8.9434E-07 2.6694E-16 4.1273E-31 5.8871E-51 3.2429E-76	2.3370E+01 1.5373E+02 7.5824E+00 1.3397E+00 1.1906E+00 6.8977E-01 3.8641E+00  - MOLE FRACTIONS 1.6007E-01 6.7987E-01 1.8356E-05 4.9513E-13 8.6693E-25 1.3193E-40 8.1738E-61	3.2318E+01 1.9154E+02 8.0320E+00 1.3781E+00 1.2332E+00 6.8159E-01 3.4845E+00  1.8907E-01 6.2192E-01 1.8895E-01 5.7299E-05 7.9787E-12 1.6629E-22 6.4609E-37 2.2648E-55		RHO H A S Z GAME U SPECIE: E-A A++ A+++ A+++ A+++	6.9494E+00 1.0651E+02 6.8885E+00 1.3314E+00 1.1395E+00 7.1342E-01 1.5393E+01 S	2.7538E+01 1.8048E+02 7.9058E+00 1.2756E+00 1.2756E+00 6.842TE-01 3.8775E+00  - MOLE FRACTIONS 1.8404E-01 6.3196E-01 1.8396E-01 4.2476E-05 3.6538E-12 3.6442E-23 5.3445E-38 5.55384E-57	3.7019E+01 2.2188E+02 8.4032E+00 1.4129E+00 1.2683E+00 6.8094E-01 3.5463E+00 2.1152E-01 5.7709E-01 2.1127E-01 1.2680E-04 5.3615E-11 5.7495E-21 1.8736E-34 9.1889E-52

### $\rm p_1$ = 50 kN/ $\rm m^2$

78 - 3800C707 N/38-N/ 031- 0300C703 N/3EC	. PI = 3.005404 (1/34-H). 021= 0.405402 (1/356 ).
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 4.9791E+02 2.8357E+03 4.2785E+03	P 5.7218E+02 3.5313E+03 5.2336E+03
T - 5.9752E+01 7.6868E+01 8.4493E+01	T 6.2434E+01 8.1719E+01 9.0488E+01
RHO 7.2134E+00 2.9676E+01 3.9364E+01	RHO 7.7171E+00 3.3806E+01 4.3674E+01
H 1.1410E+02 1.9469E+02 2.3808E+02	H 1.2999E+02 2.2425E+02 2.7213E+02
A 7.0043E+00 8.0767E+00 8.6122E+00	A 7.2366E+00 8.4426E+00 9.0911E+00
\$ 1.3436E+00 1.3882E+00 1.4310E+00	S 1.3688E+00 1.4222E+00 1.4677E+00
Z 1.1552E+00 1.2431E+00 1.2864E+00	Z. 1.1876E+00 1.2783E+00 1.3243E+00
GAME: 7:1075E-01 6-8268E-01 6:8239E-01	GAME 7.0629E-01 6.8236E-01 6.8969E-01
U 1.6031E+01 3.9015E+00 3.5850E+00	U 1.7275E+01 3.9575E+00 3.7038E+00
	0 1112/32/01 38/33/32/00 30/0302/00 %
SPECIES MOLE FRACTIONS	NO. C. CO.CT LONG
SPECIES	SPECIES MOLE FRACTIONS
E- 1.3435E-01 1.9556E-01 2.2263E-01	E- 1.5795E-01 2.1768E-01 2.4489E-01
A 7.3130E-01 6.0894E-01 5.5492E-01	A 6.8410E-01 5.6477E-01 5.1065E-01
A+ 1.3434E-01 1.9544E-01 2.2226E-01	A+ 1.5794E-01 2.1741E-01 2.4403E-01
A++ 3.4002E-06 6:3323E-05 1.8915E-04	A++, 7.1881E-06 1.3659E-04 4.2693E-04
A+++ 5.5343E-15 9.5186E-12 1.4030E-10	A+++ 3.0764E-14 6.0231E-11 9.9580E-10
A++++ 3-71.1131E-28 2.1702E-22 3.4224E-20	A++++ 2.6692E-276.7053E-21 1.2754E-18
AV 5 4.3737E-47 9.3538E-37 3.2386E-33	AV 7.1184E-45 2.2614E-34 1.0261E-30
AVI 1.4264E-70 3.7037E-55 5.9595E-50	AVI 2.6183E-67 1.1450E-51 2.6499E-46
AVII 0. 1.1416E-79 3.7729E-72	AVII 0. 1.1944E-74 6.3026E-67
AVIII 0. 0.	AVIII 0. 0. 9.3784E-92
	AVIII 9. 0.
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<u>.</u>	
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P1 = 5.00E+04 N/SQ-M. US1= 6.20F+03 M/SFC	P1 = 5-00F+04 N/SO-H- US1= 6-60E+03 M/SEC
P1 = 5.00E+04 N/SQ-M, US1= 6.20E+03 M/SEC	P1 = 5.00E+04 N/SQ-H, US1= 6.60E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 5-3443E+02 3.1724E+03 4.7412E+03	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6.1115E+02 3.9102E+03 5.7572E+03
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 5-3443E+02 3.1724E+03 4.7412E+03 T 6-1102E+01 7-9242E+01 8.7380E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 5.34436+02 3.17246+03 4.74126+03 T 6.11026+01 7.92426+01 8.73806+01 RHU 7.46796+00 3.17606+01 4.15776+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6.1115E+02 3.9102E+03 5.7572E+03
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 5-3443E+02 3-1724E+03 4-7412E+03 T 6-1102E+01 7-9242E+01 8-7380E+01 RHO 7-4679E+00 3-1760E+01 4-1577E+01 H 1-2192E+02 2-0923E+02 2-5479E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6.1115E+02 3.9102E+03 5.7572E+03 7 6.3752E+01 8.4304E+01 9.3871E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 5-3443E+02 3.1724E+03 4.7412E+03 T 6.1102E+01 7.9242E+01 8.7380E+01 RHO 7.4679E+00 3.1760E+01 4.1577E+01 H 1.2192E+02 2.0923E+02 2.5479E+02 A 7.1200E+00 8.2538E+00 8.8397E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6.1115E+02 3.9102E+03 5.7572E+03 T 6.3752E+01 8.4304E+01 9.3871E+01 RHD 7.9604E+00 3.5783E+01 4.5616E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 5,3443E+02 3.1724E+03 4.7412E+03 T 6-1102E+01 7.9242E+01 8.7380E+01 RHU 7.4679E+00 3.1760E+01 4.1577E+01 H 1.2192E+02 2.0923E+02 2.5479E+02 A 7-1200E+00 8.2538E+00 8.8397E+00 S 1.3561E+00 1.4050E+00 1.4492E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6.1115E+02 3.9102E+03 5.7572E+03 T 6.3752E+01 8.4304E+01 9.3871E+01 RHO 7.9604E+00 3.5783E+01 4.5616E+01 H 1.3832E+02 2.3973E+02 2.9016E+02
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3-1724E+03   4-7412E+03   T   6-1102E+01   7-9242E+01   8-7380E+01   RHU   7-4679E+00   3-1760E+01   4-1577E+01   H   1-2192E+02   2-0923E+02   2-5479E+02   A   7-1200E+00   8-2538E+00   8-8397E+00   S   1-3561E+00   1-4050E+00   1-4492E+00   2   1-1712E+00   1-2050E+00   1-3050E+00   1	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6.1115E+02 3.9102E+03 5.7572E+03 T 6.3752E+01 8.4304E+01 9.3871E+01 RHD 7.9604E+00 3.5783E+01 4.5616E+01 H 1.3832E+02 2.3973E+02 2.9016E+02 A 7.3541E+00 - 8.6645E+00 9.3710E+00
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-34436+02   3.17246+03   4.74126+03   T   6.11026+01   7.92426+01   8.73806+01   RHU   7.46796+00   3.17606+01   4.15776+01   H   1.21926+02   2.09236+02   2.54796+02   A   7.12006+00   8.25388+00   8.83976+00   S   1.35616+00   1.40506+00   1.44926+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6.1115E+02 3.9102E+03 5.7572E+03 T 6.3752E+01 8.4304E+01 9.3871E+01 RHD 7.9604E+00 3.5783E+01 4.5616E+01 H 1.3832E+02 2.3973E+02 2.9016E+02 A 7.3541E+00 8.6445E+00 9.3710E+00 S 1.3818E+00 1.4395E+00 1.48865E+00
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3-1724E+03   4-7412E+03   T   6-1102E+01   7-9242E+01   8-7380E+01   RHU   7-4679E+00   3-1760E+01   4-1577E+01   H   1-2192E+02   2-0923E+02   2-5479E+02   A   7-1200E+00   8-2538E+00   8-8397E+00   S   1-3561E+00   1-4050E+00   1-4492E+00   2   1-1712E+00   1-2605E+00   1-3050E+00   1	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6.1115E+02 3.9102E+03 5.7572E+03 T 6.3752E+01 8.4304E+01 9.3871E+01 RHO 7.9604E+00 3.5783E+01 4.5616E+01 H 1.3832E+02 2.3973E+02 2.9016E+02 A 7.3541E+00 8.6445E+00 9.3710E+00 S 1.3818E+00 1.4395E+00 1.4865E+00 Z 1.2043E+00 1.2962E+00 1.3445E+00
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3.1724E+03   4.7412E+03   T   6.1102E+01   7.9242E+01   8.7380E+01   81.7380E+01   81.7380E+01   4.1577E+01   4.1577E+00   4.1577E+	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+00   3.5783E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   6.445E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   2   1.2043E+00   1.2962E+00   1.3445E+00   GAME   7.0444E-01   6.8384E-01   6.9578E-01
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3-1724E+03   4-7412E+03   T   6-1102E+01   7-9242E+01   8-7380E+01   8-7380E+01   8-7380E+01   8-7380E+01   8-7380E+01   8-7380E+01   8-8397E+00   8-8538E+02   8-8397E+00   8-8538E+00   8-8397E+00   8-8397E+00   1-4492E+00   1-1712E+00   1-2605E+00   1-3050E+00   GAME   7-0839E-01   6-8202E-01   6-8526E-01   U   1-6654E+01   3-9279E+00   3-6403E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6.1115E+02 3.9102E+03 5.7572E+03 T 6.3752E+01 8.4304E+01 9.3871E+01 RHD 7.9604E+0D 3.5763E+01 4.5616E+01 H 1.3832E+02 2.3973E+02 2.9016E+02 A 7.3541E+00 - 8.6445E+00 9.3710E+00 S 1.3818E+00 1.4395E+00 1.4865E+00 Z 1.2043E+00 1.2962E+00 1.3445E+00 GAMÉ 7.044E-01 6.8384E-01 6.9578E-01 U 1.7895E+01 3.9989E+00 3.7808E+00
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3.1724E+03   4.7412E+03   7.9242E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7370E+01   8.7380E+00   8.7370E+02   8.7370E+02   8.7370E+00   8.7380E+00   8.73870E+00   8.7380E+00   8.73870E+00   8.73870E	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6.1115E+02 3.9102E+03 5.7572E+03 T 6.3752E+01 8.4304E+01 9.3871E+01 RHD 7.9604E+00 3.5783E+01 4.5616E+01 H 1.3832E+02 2.3973E+02 2.9016E+02 A 7.3541E+00 1.4395E+00 9.3710E+00 S 1.3818E+00 1.4395E+00 1.4865E+00 Z 1.2043E+00 1.2962E+00 1.3445E+00 GAME 7.0444E-01 6.8384E-01 6.9578E-01
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3-1724E+03   4-7412E+03   T   6-1102E+01   7-9242E+01   8-7380E+01   RHU   7-4679E+00   3-1760E+01   4-1577E+01   H   1-2192E+02   2-0923E+02   2-5479E+02   A   7-1200E+00   8-2538E+00   8-8397E+00   S   1-3561E+00   1-4050E+00   1-4492E+00   Z   1-1712E+00   1-2605E+00   1-3050E+00   GAME   7-0839E-01   3-9279E+00   3-6403E+00   SPECIES     MOLE FRACTIONS	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+00   3.5763E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   - 1.6455E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   2   1.2043E+00   1.2962E+00   1.3445E+00   GAMÉ   7.0444E-01   6.8384E-01   6.9578E-01   U   1.7895E+01   3.9989E+00   3.7808E+00
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3-1724E+03   4-7412E+03   T   6-1102E+01   7-9242E+01   8-7380E+01   RHU   7-4679E+00   3-1760E+01   4-1577E+01   H   1-2192E+02   2-0923E+02   2-5479E+02   A   7-1200E+00   8-2538E+00   8-8397E+00   S   1-3561E+00   1-4050E+00   1-4492E+00   Z   1-1712E+00   1-2605E+00   1-3050E+00   GAME   7-0839E-01   3-9279E+00   3-6403E+00   SPECIES     MOLE FRACTIONS	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+00   3.5783E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   + 8.6445E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   Z   1.2043E+00   1.2962E+00   1.3445E+00   GAME   7.0444E-01   6.8364E-01   6.9578E-01   U   1.7895E+01   3.9989E+00   3.7808E+00   SPECIES
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3-1724E+03   4-7412E+03   T   6-1102E+01   7-9242E+01   8-7380E+01   RHU   7-4679E+00   3-1760E+01   4-1577E+01   H   1-2192E+02   2-092B+02   2-5479E+02   A   7-1200E+00   8-2538E+00   8-8397E+00   S   1-3561E+00   1-4050E+00   1-4492E+00   2   1-1712E+00   1-2050E+00   1-350E+00   GAME   7-0839E-01   6-8202E-01   6-8526E-01   U   1-6654E+01   3-9279E+00   3-6403E+00   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   SPECIES   1-4619E-01   2-0668E-01   3-3246E-01   3-32	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   7   6.3752E+01   8.4304E+01   9.3871E+01   RHO   7.9604E+00   3.5783E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   8.6445E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   Z   1.2043E+00   1.2962E+00   1.3445E+00   GAME   7.044E-01   6.8384E-01   6.9578E-01   U   1.7895E+01   3.9989E+00   3.7808E+00   SPECIES   MOLE FRAGIIONS   FRAG
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3.1724E+03   4.7412E+03   T   6.1102E+01   7.9242E+01   8.7380E+01   RHU   7.4679E+00   3.1760E+01   4.1577E+01   H   1.2192E+02   2.0923E+02   2.5479E+02   A   7.1200E+00   8.2538E+00   8.8397E+00   S   1.3561E+00   1.4050E+00   1.4492E+00   Z   1.1712E+00   1.2605E+00   1.3050E+00   GAME   7.0839E-01   6.8202E-01   6.8526E-01   U   1.6654E+01   3.9279E+00   3.6403E+00   SPECIES   MOLE   FRACTIONS   SPECIES   MOLE   FRACTIONS   SPECIES   MOLE   FRACTIONS   SPECIES   1.4619E-01   2.0668E-01   2.3372E-01   A   7.0762E-01   2.0668E-01   2.3316E-01   A+ 1.4618E-01   2.0650E-01   2.3316E-01   C.3316E-01   C.3	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+00   3.5783E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   -8.6645E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   Z   1.2043E+00   1.2962E+00   1.3445E+00   GAME   7.0444E+01   6.8384E+01   6.5578E+01   U   1.7895E+01   3.9989E+00   3.7808E+00   SPECIES   MOLE FRAGIIONS
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3.1724E+03   4.7412E+03   T   6.1102E+01   7.9242E+01   8.7380E+01   8.7380E+01   8.74679E+00   3.1760E+01   4.1577E+01   H   1.2192E+02   2.0923E+02   2.5479E+02   A   7.1200E+00   8.2538E+00   8.8397E+00   S   1.3561E+00   1.4050E+00   1.4492E+00   Z   1.1712E+00   1.2605E+00   1.3050E+00   GAME   7.0839E-01   6.8202E-01   6.8526E-01   U   1.6654E+01   3.9279E+00   3.6403E+00   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   C   1.4619E-01   2.0660E-01   2.3372E-01   A   7.0762E-01   5.8672E-01   2.3316E-01   A+ 4.9980E-06   9.3104E-05   2.8298E-04   A+ 4.9980E-06   9.3104E-05   2.8298E-04   A+ 4.9980E-06   9.3104E-05   2.8298E-04   A-76460E-01   3.8298E-04   A-76460E-01   3.8298E-04   A-76460E-01   3.920E-05   3.8298E-04   A-76460E-01   3.920E-05   3.8298E-04   A-76460E-01   3.920E-05   3.8298E-01   A-76460E-01   3.920E-05   3.8298E-04   A-76460E-01   3.920E-05   3.8298E-05	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+00   3.5783E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   -8.6445E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   Z   1.2043E+00   1.2962E+00   1.3445E+00   GAME   7.0444E-01   6.8384E-01   6.9578E-01   U   1.7895E+01   3.9989E+00   3.7808E+00   SPECIES
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5.3443E+02   3.1724E+03   4.7412E+03   T   6.1102E+01   7.9242E+01   8.7380E+01   RHU   7.4679E+00   3.1760E+01   4.1577E+01   H   1.21192E+02   2.0923E+02   2.5479E+02   A   7.1200E+00   8.2538E+00   8.8397E+00   S   1.3561E+00   1.4050E+00   1.4492E+00   Z   1.1712E+00   1.2605E+00   1.350E+00   GAME   7.0839E-01   6.8202E-01   6.8526E-01   U   1.6654E+01   3.9279E+00   3.6403E+00   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   SPECIES   2.0668E-01   2.3372E-01   A   7.0762E-01   5.8672E-01   5.3284E-01   A+   4.9980E-06   9.3104E-05   2.8298E-04   A++   4.9980E-06   9.3104E-05   2.8298E-04   A+++   1.3388E-14   2.3993E-11   3.6977E-10	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+00   3.5783E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   6.445E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   Z   1.2043E+00   1.2962E+00   1.3445E+00   GAME   7.0444E-01   6.8384E-01   6.9578E-01   U   1.7895E+01   3.9989E+00   3.7808E+00   SPECIES
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3.1724E+03   4.7412E+03   T   6.1102E+01   7.9242E+01   8.7380E+01   RHU   7.4679E+00   3.1760E+01   4.1577E+01   H   1.2192E+02   2.0923E+02   2.5479E+02   A   7.1200E+00   8.2538E+00   8.8397E+00   S   1.3561E+00   1.4050E+00   1.4492E+00   Z   1.1712E+00   1.2605E+00   1.3050E+00   GAME   7.0839E-01   6.8202E-01   6.8526E-01   U   1.6654E+01   3.9279E+00   3.6403E+00   SPECIES	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+02   3.5783E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   0.8645E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   2   1.2043E+00   1.2962E+00   1.3445E+00   U   1.7895E+01   3.9989E+00   3.7808E+00   U   1.7895E+01   3.9989E+00   3.7808E+00   SPECIES   MOLE FRACTIONS   C   C   C   C   C   C   C   C   C
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5.3443E+02   3.1724E+03   4.7412E+03   T   6.1102E+01   7.9242E+01   8.7380E+01   RHO   7.4679E+00   3.1760E+01   4.1577E+01   H   1.2129ZE+02   2.0923E+02   2.5479E+02   A   7.1200E+00   8.2538E+00   8.8397E+00   S   1.3561E+00   1.4050E+00   1.449ZE+00   Z   1.1712E+00   1.205E+00   1.3050E+00   U   1.6654E+01   3.9279E+00   3.6403E+00   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   S.8672E-01   S.3284E-01   A   7.0762E-01   S.8672E-01   S.3284E-01   A   1.4618E-01   2.0650E-01   2.3316E-01   A   4.9980E-06   9.3104E-05   2.8298E-04   A   4.9980E-06   9.3104E-05   2.8298E-04   A   4.998E-14   2.3993E-11   3.6977E-10   A   4+++   5.6518E-28   1.2131E-21   2.0511E-19   AV   5.7716E-66   1.4702E-35   5.5989E-32   S.5989E-32	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+00   3.5763E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   8.6445E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   Z   1.2043E+00   1.2962E+00   1.3445E+00   GAMÉ   7.0444E-01   6.8384E-01   6.9578E-01   U   1.7895E+01   3.9989E+00   3.7808E+00   SPECIES
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3.1724E+03   4.7412E+03   T   6.1102E+01   7.9242E+01   8.7380E+01   8.7380E+01   8.74679E+00   3.1760E+01   4.1577E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7380E+02   8.8397E+00   8.8397E+01   8.8397E+0	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+00   3.5783E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   -8.6645E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   Z   1.2043E+00   1.2962E+00   1.3445E+00   GAME   7.0444E+01   6.8384E+01   6.9578E+01   U   1.7895E+01   3.9989E+00   3.7808E+00   SPECIES   MULE FRAGIIONS
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3.1724E+03   4.7412E+03   T   6.1102E+01   7.9242E+01   8.7380E+01   RHU   7.4679E+00   3.1760E+01   4.1577E+01   H   1.2129E+02   2.9073E+02   2.5479E+02   A   7.1200E+00   8.2538E+00   8.8397E+00   S   1.3561E+00   1.4050E+00   1.4492E+00   Z   1.1712E+00   1.2605E+00   1.350E+00   GAME   7.0839E-01   6.820E-01   6.8526E-01   U   1.6654E+01   3.9279E+00   3.6403E+00   SPECIES   TOTAL   TO	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+00   3.5763E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   - 8.6445E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   2   1.2043E+00   1.2962E+00   1.3445E+00   GAME   7.0444E+01   6.8384E+01   6.9578E+01   U   1.7895E+01   3.9989E+00   3.7808E+00   SPECIES   MOLE FRACTIONS
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5-3443E+02   3.1724E+03   4.7412E+03   T   6.1102E+01   7.9242E+01   8.7380E+01   8.7380E+01   8.74679E+00   3.1760E+01   4.1577E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7380E+01   8.7380E+02   8.8397E+00   8.8397E+01   8.8397E+0	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   6.1115E+02   3.9102E+03   5.7572E+03   T   6.3752E+01   8.4304E+01   9.3871E+01   RHD   7.9604E+00   3.5783E+01   4.5616E+01   H   1.3832E+02   2.3973E+02   2.9016E+02   A   7.3541E+00   -8.6645E+00   9.3710E+00   S   1.3818E+00   1.4395E+00   1.4865E+00   Z   1.2043E+00   1.2962E+00   1.3445E+00   GAME   7.0444E+01   6.8384E+01   6.9578E+01   U   1.7895E+01   3.9989E+00   3.7808E+00   SPECIES   MULE FRAGIIONS

ν, -	7400ETU4 N73Q-N	11 031- 01005+0	13 H/3EC	P1 - 3	0.00ETUT N/ 30-	19 051- 1-206-0	3 H/3EC	
		STANDING SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	
Ρ	6.5133F+02	4.3143E+03	6.3129E+03	Ρ .	. 7.3530E+02	5. 16 76E+ 03	7.5231E+03	
T	6.5062E+01	8.7048E+01	9.7573E+01	T	6.7680E+01	9.3060E+01	1-0604E+02	
RHO	8-1973E+00	3.7704E+01	4.7370E+01	RHO	8.6492E+00	4.1044E+01	5.0242E+01	
н	1.4690E+02	2. 5572E+ 02	3.0893E+02	H	1.6481E+02	2.8893E+02	3.4883E+02	
Ä	7.4729E+00	8.8636E+00	9.6818E+00	Ä	7.7159E+00	9.3627E+00	1.0385E+01	
		1.4570E+00	1.5054E+00	ŝ				٠
s ·	1.3950E+00				1.4222E+00	1.4923E+00	1.5435E+00	
Z	1.2212E+00	1.3145E+00	1.3658E+00	2	1.2561E+00	1.3529E+00	1.4122E+00	
GAME	7.0282E-01	6.8659E-01	7.0338E-01	GAM E	7.0030E-01	6.9623E-01	7.2022E-01	
U	1.85126+01	4.0291E+00	3.8729E+00	U	1.9741E+01	4.1661E+00	4.1112E+00	
			•	_				
SPEC I	ES	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS		
E-	1.8116E-01	2.3927E-01	2.6784E-01	£-	2.0389E-01	2.6087E-01	2.9187E-01	
Ā	6.3769E-01	5-2175E-01	4.6533E-01	· Ā	5.9224E-01	4.7890E-01	4. 1872E-01	
Ã+	1.8114E-01	2.3868E-01		Ã+	2.0384E-01	2.59598-01	2.8695E-01	
A++	1.4102E-05	2.9382E-04	1.0070E-03	A++				
					2.6243E-05	6.4318E-04	2.4573E-03	
A+++	1.4512E-13	3.8033E-10	7.9003E-09	A+++	6.1230E-13	2.5104E-09	6.8918E-08	
A++++	4.6536E-26	2.0313E-19	5.7314E-17	A++++	6.6782E-25	6.5627E-18	3.0371E-15	
AV	6-6092E-43	5.2002F-32	4.2798E-28	AV	4.71518-41	1.30016-29	2.2922E-25	
AVI ·	1.8123F-64	3.21836-48	1.7094E-42	AVI	9.9988E-62	1.0038E-44	1.5745E-38	٠,
IIVA	8.2435E-94	1.0483E-69	1.6909E-61	I I VA	1.7849E-89	1.0417E-64	7.4417E-56	
IIIVA	٠ 0.	5.8439E-96	1.8759E-84	TITVA	0.	8.4659E-89	7.5457E-77	
					•	the second second		•
	, ,	•	-	•		* * *		:
								-
				·				
01 =	5.00E+04 N/SQ-M	I. US1= 7.00E+0	3 M/SEC	.01 - 4	5_00E+04 N/SQ-M	. US 1= 7.40E+0	2 4/555	
P1 -	7400E+0+ II/ 34-II	19 031- 1400040	73 11/310	, PL = :	3-UUETU4 N/ 34-A	14 021- 1-405-0	3 4/356	
	MOVING SHOCK	STAND ING SHOCK		•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	
P	6.9272E+02	4.7327E+03	6.9009E+03	Р	7.7908E+02	5.6191E+03	8.1699E+03	
T ·	6.6370E+01	8 <b>. 9</b> 952E+01	1.0162E+02	Τ,	6.8997E+01	9.63885+01	1.1067E+02	
RHO	8.4271E+00	3.9458E+01	4.8913E+01	RHO	8.8631E+00	4. 2455E+01	5.1386E+01	٠.
н	1.5573E+02	2.7211E+02	3-2845E+02	н	1.7415E+02	3.0620E+02	3.6963E+02	
Ä	7.5934E+00	9.1019E+00	1.0022E+01	Ä	7.84 08E+00	9.6458E+00	1.0750E+01	
ŝ	1.4085E+00	1.4746E+00	1.5244E+00	Š	1.4361E+00	1. 51 00E+00	1.5623E+00	
ž	1.2385E+00	1. 3334E+00	1.3883E+00	3	1.4361E+00	1.3732E+00		
GAME							1.4367E+00	
	7.0144E-01	6.9071E-01	7.1190E-01	GAME	6.9941E-01	7.0297E-01	7.2679E-01	
U	1.9128F+01	4.0898E+00	3.9812E+00	ប	2.0353E+01	4. 2541E+00	4-2304E+00	
		•		•		.*:		
SPECI	ES	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS		٠,
E-	1.9259E-01	2.5003E-01	2.7971E-01	E-	2.1506E-01	2.7175E-01	3.0394E-01	
Ā	6.1483E-01	5.0037E-01	4.4215E-01	Ā	5.6992E-01	4.5746E-01.	3.9590E-01	
Ã+	1.92556-01	2.4916E-01	2.7657E-01	. A+	2.1499E-01	2.6983E-01	2.9638E-01	
A++	1.9345E-05	4.3328E-04	1.5706E-03	Ä++	3.5273E-05	9.5937E-04	3. 7782E-03	٠
		9.6904E-10	2.3187E-08					
A+++	3.0188E-13			A+++	1.21726-12	6.5890E-09	1.9779E-07	
A++++	1.81216-25	1.1397E-18	4. 1256E-16	A++++	2.3631E-24	3.8581E-17	2.1003E-14	
AV	5.9151E-42	8.0774E-31	9.7382E-27	AV	3.4752E-40	2.15416-28	4. 8875E-24	
IVA	4.8337E-63	1.7580E-46	1.6018E-40	. IVA	1.7627E-60	5.9548E-43	1.3390E-36	
IIVA	2.3007E-91	3.2271E-67	1.0872E-58	AVII	9.1379E-88	3.525lE-62	4.1004E-53	٠
AVI I I	j, k Q. − k	3.4924E-92	1. 1405E-80	AVIII	0.	2.1778E-85	3.00076-73	
				\$ - <del>\$ - </del>				

Pl =	P1 = 5.00E+04 N/SQ-H, US1= 7.60E+03 M/SEC			P1 = 5.00E+04 N/SQ-M, US1= 8.00E+03 M/SEC			
,	MUNIME SHOCK	CTANDING CHOCK	REFLECTED SHOCK		MONING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	8.2403E+02	6.0839E+03	8.8470E+03	Р	9.1744E+02	7.0497E+03	1.0296E+04
Ť	7.0327E+01	9. 9996E+01		Ŧ	7.3044E+01	1.0776E+02	1.2539E+02
RHO.			1.1549E+02	RHO	9.4484E+00	4.5471E+01	5.4185E+01
	9.0680E+00	4.3627E+01	5.2393E+01				
H	1.8374E+02	3.2388E+02	.3.9117E+02	H	2.0368E+02	3.6049E+02	4.3680E+02
A	7-9687E+00	9. 95468+00	1.1109E+01	A	8-2351E+00	1.0598E+01	1.1799E+01
S	1.4501E+00	1.5279E+00	1.5809E+00	<u>s</u>	1.4788E+00	1.5624E+00	1.6183E+00
Z	1.2921E+00	1.3946E+00	1.4621E+00	Z	1.3294E+00	1.4387E+00	1.5154E+00
GAME	6.9878E-01	7-1060E-01	7.3087E-01	GAME	6.9841E-01	7. 2451E- 01	7.3271E-01
U.	2.0962E+01	4.3594E+00	4.3621E+00	Ú	2.2174E+01	4.6128E+00	4.6829E+00
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
£~	2.2609E-01	2.8294E-01	3.1603E-01	E-	2.4775E-01	3.0492E-01	3.4010E-01
À	5.4786E-01	4.3556E-01	3.7362E-01	Ä	5.0457E-01	3.9335E-01	3. 3137E-01
A+	2.26008-01	2.8005F-01	3.0468E-01	Ä+ *	2.4759E-01	2.9854E-01	3.1697E-01
A++	4.7060E-05	1.4443E-03	5.6746E-03	A++	8.23836-05	3.1876E-03	1.1557E-02
A+++	2.3856E-12	1.7708E-08	5.4116E-07	A+++	8.8397E-12	1.2150E-07	3.2611E-06
A++++	8.2035E-24	2.3594E-16	1. 3366E- 13	A++++	9.1453E-23	8.0243E-15	3.7150E-12
AV	2.5555E-39	3.7788E-27	9. 1632E-23	ÄV	1.1780E-37	9.9771E-25	1.8054E-20
AVI .		3.8110E-41	9. 4694E-35	ĀVI	8.9786E-57	1.2467E-37	
AVII	3.3913E-59 7.5732E-86	1.3088E-59	1.73176-50	IIVA	2.2045E-82		9.5907E-46
AVIII	0.	6.22888-82	1.2421E-69	IIIVA	0.	3.2512E-75	2.9755E-63
P1 =	5.00E+04 N/SQ-M	. USl= 7.80E+0	3 M/SEC	Pl = 5	.00E+04 N/SQ-M	, ÚS1= 8.20E+0	D3 M/SEC
	MONING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	8.7016E+02	6.5612F+03	9.5643E+03	p	9.6626E+02	7.5572E+03	1.1050E+04
T	7.1674E+01	1.0376E+02	1.20446+02	Ť	7.4446E+01	1.11956+02	1.3014E+02
RHO	9.2633E+00	4.4654E+01	5.3362E+01	, RHO	9.6256E+00	4.6174E+01	5.5062E+01
H	1.9358E+02	3. 4197E+02	4.1393E+02	H	2.1404E+02	3. 7957E+02	4.6002E+02
A	8.0999E+00	1.0271E+01	1.1459E+01	Ä	8.3750E+00	1.0924E+01	1.2123E+01
Š	1.4644E+00	1.5451E+00	1.5995E+00	ŝ	1.4934E+00	1.5796E+00	1.6362E+00
7.	1.3106E+00	1.4161E+00	1.4882E+00	ž	1.3484E+00	1.4620E+00	1.5420E+00
GAME	6.9844E-01	7. 1801E-01	7.3256E-01	GAME	6.9872E-01	7.2918E-01	7.3236E-01
U	2.1569E+01	4.4796E+00	4.5386E+00	U	2.2786E+01		4.8004E+00
SPECIE	:s	+ MOLE, FRACTIONS		SPECIES		- MOLE FRACTIONS	
	2 24005 01	2 02025 01	3 30055 01	E	2 50205 01	: 1: 3 1400E=01	3.5151E-01
Ę-	2.3699E-01	2.9383E-01	3. 2805E-01		4.8333E-01		3.1240E-01
A.	5.2608F-01	4.1449E-01	3.5216E-01	A			
A+	2.3687F-01	2.8953F-01	3. 1154E-01	A+	2.5817E-01		3.2068E-01.
A++	6.2410E-05	2.1496E-03	8.2520E-03	A++	1.08446-04		1.5404E-02
A+++	4-61536-12	4.6490E-08	1.3840E-06	A+++	1.6848E-11	3.08598-07	6. 8758E-06
A++++	2.7704E-23	1.38188-15	7. 5705E-13	A++++	2.99136-22		1.4994E-11
AV	1.7775E-38	6.1827E-26	1-4368E-21	AV ·	7.69396-37	1.4885E-23	1.6766E-19
AVI	5.8005E-58	2.2007F-39	5. 1943E-33	IVA	1.3566E-55		5.3915E-30
AVII	4.5602E-84	4.17086-57	5.0976E-48	- 11 VA	9.9832F-81	3.3749E-52	9.8056E-44
AVIII	0.	1.4416E-78	2. 5926E-66	IIIVA	0	5.7241E-72	1.5102E-60.

P1 =	5.00E+04 N/SQ-M	. US1= 8.40E+0	3 M/SEC	P1 = 5.	-00E+04 N/SQ-M	. US1= 8.80E+0	3 M/SEC
		CTANDANC CUCCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
p '	MOVING SHOCK	8.0523E+03	1.1819E+04	p	1.1179E+03	9.1050E+03	1.33998+04
-	1.0157E+03		1.3486E+02	Ť.	7.8876E+01	1.2448E+02	
T	7.5878E+01	1.1619E+02		RHO			1.4378E+02
RHD	9.7863E+00	4.6634E+01	5.5817E+01	H	1.0069E+01	4.7707E+01	5.7314E+01
H	2.2463E+02	3.9876E+02	4.8395E+02	Ä	2.4657E+02	. 4. 38 75E+02	5.3326E+02
A	8.5199E+00	1.1240E+01	1.2451E+01		8.8283E+00	1.18226+01	1.3094E+01
S	1.5081E+00	1.5970E+00	1.6544E+00	<u>s</u>	1.5379E+00	1.6296E+00	1.6895E+00
2	1.3678E+00	1.4861E+00	1.5700E+00	2	1.4075E+00	. 1.5332E+00	1.6259E+00
GAME	6.9941E-01	7.3172E-01	7.3218E-01	GAME	7.0205E-01	7.3226E-01	7.3341E-01
U ·	2.3382E+01	4.93098+00	4.9450E+00	U	2.4567E+01	5.1936E+00	5.2214E+00
SPECIE		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
SPECIE		- HOLL PRACTIONS				- NOCE THACTIONS	•
E-	2.6889E-01	3.2711E-01	. 3. 630 7E-01	E-	2.8950E-01	- 3.4779E-01	3.8496E-01
A	4.6237E-01	3.5242E-01	2.9380E-01	· 🔺	4.2124E-01	3.1652E-01	2.6015E-01
A+	2.6860E-01	3.1383E-01	3.2322E-01	<b>A+</b>	2.8901E-01	3.2360E-01	3.2486E-01
A++	1.4236E-04	6.6423E-03	1.9905E-02	A++	2.4498E-04	1.2088E-02	2.9990E-02
A+++	3.1957E-11	7.4227E-07	1.3541E-05	A+++	1-1504E-10	3.3711E-06	4.1502E-05
A++++	9.7077E-22	2.2215E-13	5.3735E-11	A++++	1.0204E-20	3.6535E-12	4.5546E-10
AV	4.9961E-36	1.9064E-22	1.2967E-18	AV	2.0967E-34	1.6279E-20	4.0727E-17
AVI a	2.0819E-54	2.5512E-34	1.07856-28	IVA	4-8956E-52	1.6517E-31	1.7165E-26
IIVA	5.0679E-79	6.4305E-50	6.9408E-42	AVII	1.3568E-75	6.2751E-46	9.4765E-39
AVIII	0.	6.6170E-69	4. 6948E-58	AVIII'	0.	1.5286E-63	7.9848E-54
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					•		
•							
	E 005404 N/50-N	. : US1= 8.60F+0	3 M/SEC	91.s. 5.	.00F+04 N/SO-M	. US1= 9.00F+0	a M/SEC
Pl =	5.00E+04 N/SQ-M	. US1= 8.60E+0	3 M/SEC	P1-≖ 5.	.00E+04 N/SQ-M	, US1= 9.00E+0	3 M/SEG
Pl =			•	P1-= 5			
P1 =		STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	3 M/SEG
P1 =			•	P			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK 1.2596E+04	P T	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK	STANDING SHOCK 8.5759E+03	REFLECTED SHOCK 1.2596E+04	P	MOVING SHOCK 1.1706E+03	STANDING SHOCK 9.6307E+03	REFLECTED SHOCK 1.4196E+04
P. T	MOVING SHOCK 1.0662E+03 7.7371E+01	STANDING SHOCK 8.5759E+03 1.2036E+02	REFLECTED SHOCK 1-2596E+04 1-3935E+02	Р Т RHO Н	MOVING SHOCK 1.1706E+03 8.0488E+01	STAND ING SHOCK 9.6307E+03 1.2862E+02	REFLECTED SHOCK 1.4196E+04 1.4812E+02
P T RHO H	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02	P T RHO	MOVING SHOCK 1.1706E+03 8.0488E+01 1.0182E+01 2.5791E+02	STANDING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02	REFLECTED SHOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02
P T RHO H	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01	Р Т RHO Н	MOVING SHOCK 1.1706E+03 8.048E+01 1.0182E+01 2.5791E+02 8.9973E+00	STANDING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.2111E+01	REFLECTED SHOCK 1.4196F+04 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01
P T RHO H A S	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00	P T RHO H A S	MOVING SHOCK 1.1706E+03 8.0488E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00	STANDING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00	REFLECTED SHOCK 1.4196F404 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00
P T RHO H A S	MOVING SHOCK 1-0662E+03 7-7371E+01 9-923E+00 2-3547E+02 8-6730E+00 1-5232E+00 1-3878E+00	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00	P T RHO H A S Z	MOVING SHOCK 1.1706E+03 8.0488E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 1.5585E+00	REFLECTED SHOCK 1.4196E+04 1.481ZE+02 5.7907E+01 5.5867E+02 1.342ZE+01 1.7071E+00 1.6551E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.3878E+00 7.0054E-01	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01	P T RHO H A S Z GAME	MOVING SHOCK 1.1706E+03 8.0488E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00 1.4283E+00 7.0415E-01	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 1.5585E+00 7.3167E-01	REFLECTED SHOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01
P T RHO H A S	MOVING SHOCK 1-0662E+03 7-7371E+01 9-923E+00 2-3547E+02 8-6730E+00 1-5232E+00 1-3878E+00	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00	P T RHO H A S Z	MOVING SHOCK 1.1706E+03 8.0488E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 1.5585E+00	REFLECTED SHOCK 1.4196E+04 1.481ZE+02 5.7907E+01 5.5867E+02 1.342ZE+01 1.7071E+00 1.6551E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.3878E+00 7.0054E-01 2.3975E+01	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01 5.0467E+00	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00	P T RHO M A S Z GAME U	MOVING SHOCK 1-1706E+03 8-048E+01 1-0182E+01 2-5791E+02 8-973E+00 1-5534E+00 1-4283E+00 7-0415E-01 2-5155E+01	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 1.5585E+00 7.3167E-01 5.3371E+00	REFLECTED SMOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.3878E+00 7.0054E-01 2.3975E+01	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00	P T RHO H A S Z GAME	MOVING SHOCK 1-1706E+03 8-048E+01 1-0182E+01 2-5791E+02 8-973E+00 1-5534E+00 1-4283E+00 7-0415E-01 2-5155E+01	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 1.5585E+00 7.3167E-01	REFLECTED SHOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.3878E+00 7.0054E-01 2.3975E+01	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01 5.0467E+00	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1-1706E+03 8-048EE+01 1-0182E+01 2-5791E+02 8-9973E+00 1-5534E+00 1-4283E+00 7-0415E-01 2-5155E+01	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 1.5585E+00 7.3167E-01 5.3371E+00  - MOLE FRACTIONS	REFLECTED SHOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.3878E+00 7.0054E-01 2.3975E+01	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01 5.0467E+00	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00	P T RHO H A S Z GAME U SPECIES E-A	MOVING SHOCK 1.1706E+03 8.0488E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00 1.4283E+00 7.0415E-01 2.5155E+01	STANDING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 1.5585E+00 7.3167E-01 5.337IE+00	REFLECTED SHOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02 1.342ZE+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.3878E+00 7.0054E-01 2.3975E+01	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01 5.0467E+00	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1-1706E+03 8-048EE+01 1-0182E+01 2-5791E+02 8-9973E+00 1-5534E+00 1-4283E+00 7-0415E-01 2-5155E+01	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 1.5585E+00 7.3167E-01 5.3371E+00  - MOLE FRACTIONS	REFLECTED SMOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 7.0054E-01 2.3975E+01	STANDING SHOCK 8.5759E*03 1.2036E*02 4.7198E*01 4.1858E*02 1.1537E*01 1.6134E*00 1.5096E*00 7.3249E*01 5.0467E*00	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00	P T RHO H A S Z GAME U SPECIES E-A	MOVING SHOCK 1.1706E+03 8.0488E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00 7.0415E-01 2.5155E+01 2.9988E-01 4.0056E-01	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 7.3167E-01 5.3371E+00  - MOLE FRACTIONS 3.583E-01 2.9901E-01	REFLECTED SHOCK 1.4196F-04 1.4812F-02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00
PT RHOHA S Z GAME U SPECIE	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.3878E+00 7.0054E-01 2.3975E+01	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01 5.0467E+00	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 1-1706E+03 8-0488E+01 1-0182E+01 2-5791E+02 8-9973E+00 1-5534E+00 1-4283E+00 7-0415E-01 2-5155E+01 2-9988E-01 4-0056E-01 2-9924E-01 3-2373E-04	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 1.5585E+00 7.3167E-01 5.3371E+00  - MOLE FRACTIONS 3.5835E-01 2.9901E-01 3.2692E-01 1.5708E-02	REFLECTED SMOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00  3.9581E-01 2.4409E-01 3.2445E-01 3.5583E-02
P T RHO H A S Z GAME U SPECIE E-A A+++	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.3878E+00 7.0054E-01 2.3975E+01 2.7944E-01 4.4131E-01 2.7906E-01 1.8747E-04 6.1129E-11	STAND ING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01 5.0467E+00  - MOLE FRACTIONS 3.3756E-01 3.3399E-01 3.1934E-01 9.1078E-03 1.6398E-06	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 7.3250E-01 5.0857E+00 3.7402E-01 2.7674E-01 3.2450E-01 2.4724E-02 2.4340E-05	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 1.1706E+03 8.0488E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00 7.0415E-01 2.5155E+01 2.9988E-01 4.0056E-01 2.9924E-01 3.2373E-04 2.2231E-10	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 7.3167E-01 5.3371E+00  - MOLE FRACTIONS 3.5835E-01 2.9901E-01 3.2692E-01 1.5708E-02 6.6220E-06	REFLECTED SHOCK 1.4196F+04 1.4812F+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00  3.9581E-01 2.4409E-01 3.2445E-01 3.5583E-02 6.7201E-05
P T RHO H A S Z GAME U SPECIE E- A + A+++ A++++	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.3878E+00 7.0054E-01 2.3975E+01 ES	STANDING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01 5.0467E+00  - MOLE FRACTIONS 3.3756E-01 3.399E-01 9.1078E-03 1.6398E-06 9.5975E-13	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00  3.7402E-01 2.7674E-01 3.2450E-01 2.4724E-02 2.4340E-05 1.6377E-10	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 1.1706E+03 8.048E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00 1.4283E+00 7.0415E-01 2.5155E+01 2.9988E-01 4.0056E-01 2.9924E-01 3.2373E-04 2.2231E-10 3.4073E-20	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 1.5585E+00 7.3167E-01 5.337IE+00  - MOLE FRACTIONS 3.5835E-01 2.9901E-01 3.2692E-01 1.5708E-02 6.6220E-06 1.2850E-11	REFLECTED SHOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00  3.9581E-01 2.4409E-01 3.2445E-01 3.5583E-02 6.7201E-05 1.1555E-09
P T RHO H A S Z GAME U SPECIE E-A A+A A++A A+++A AV	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.3878E+00 7.0054E-01 2.3975E+01  ES 2.7944E-01 4.4131E-01 2.7906E-01 1.8747E-04 6.1129E-11 3.1966E-21 3.3251E-35	STANDING SHOCK 8.5759E*03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01 5.0467E+00  - MOLE FRACTIONS 3.3756E-01 3.3399E-01 3.1934E-01 9.1078E-03 1.6398E-06 9.5975E-13 1.9426E-21	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00  3.7402E-01 2.7674E-01 3.2450E-01 2.4724E-02 2.4340E-05 1.6377E-10 7.7960E-18	P T RHO H A S Z GAME U SPECIES E-A A ++++ A+++	MOVING SHOCK 1.1706E+03 8.0488E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00 1.4283E+00 7.0415E-01 2.5155E+01 2.9988E-01 4.0056E-01 2.9924E-01 3.2373E-04 2.2231E-10 3.4073E-20 1.4106E-33	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 7.3167E-01 5.3371E+00  - MOLE FRACTIONS 3.5835E-01 2.9901E-01 3.2692E-01 1.5708E-02 6.6220E-06 1.2850E-11 1.2074E-19	REFLECTED SHOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00  3.9581E-01 2.4409E-01 3.5583E-02 6.7201E-05 1.1555E-09 1.8435E-16
P T RHO H A S Z GAME U SPECIE E-A A+A+++A+++AV AVI	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.5232E+00 2.3975E+01 2.3975E+01 2.7946E-01 2.7946E-01 1.8747E-04 6.1129E-11 3.1966E-21 3.3251E-35 3.3482E-53	STAND ING SHOCK 8.5759E+03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01 5.0467E+00  - MOLE FRACTIONS 3.3756E-01 3.3399E-01 3.1934E-01 9.1078E-03 1.6398E-06 9.5975E-13 1.9426E-21 7.4614E-33	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00 3.7402E-01 2.7674E-01 3.2450E-01 2.4724E-02 2.4340E-05 1.6377E-10 7.7960E-18 1.5034E-27	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A++ A+++ AV AVI	MOVING SHOCK 1.1706E+03 8.048E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00 1.5534E+01 2.5155E+01 2.9988E-01 4.0056E-01 2.9924E-01 3.2373E-04 2.2231E-10 3.4073E-20 1.4106E-33 7.7779E-51	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5936E+02 1.211E+01 1.6465E+00 1.5585E+00 7.3167E-01 5.337IE+00  - MOLE FRACTIONS 3.5835E-01 2.9901E-01 3.2692E-01 1.5708E-02 6.6220E-06 1.2850E-11 1.2074E-19 3.0706E-30	REFLECTED SHOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.586T+02 1.342ZE+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00  3.9581E-01 2.4409E-01 3.2445E-01 3.5583E-02 6.7201E-05 1.1555E-09 1.8435E-16 1.5944E-25
P T RHO H A S Z GAME U SPECIE E-A A+A A++A A+++A AV	MOVING SHOCK 1.0662E+03 7.7371E+01 9.9293E+00 2.3547E+02 8.6730E+00 1.5232E+00 1.3878E+00 7.0054E-01 2.3975E+01  ES  2.7944E-01 4.4131E-01 2.7906E-01 1.8747E-04 6.1129E-11 3.1966E-21 3.3251E-35 3.3482E-53 2.9087E-77	STANDING SHOCK 8.5759E*03 1.2036E+02 4.7198E+01 4.1858E+02 1.1537E+01 1.6134E+00 1.5096E+00 7.3249E-01 5.0467E+00  - MOLE FRACTIONS 3.3756E-01 3.3399E-01 3.1934E-01 9.1078E-03 1.6398E-06 9.5975E-13 1.9426E-21	REFLECTED SHOCK 1.2596E+04 1.3935E+02 5.6585E+01 5.0835E+02 1.2769E+01 1.6719E+00 1.5975E+00 7.3250E-01 5.0857E+00  3.7402E-01 2.7674E-01 3.2450E-01 2.4724E-02 2.4340E-05 1.6377E-10 7.7960E-18	P T RHO H A S Z GAME U SPECIES E-A A ++++ A+++	MOVING SHOCK 1.1706E+03 8.0488E+01 1.0182E+01 2.5791E+02 8.9973E+00 1.5534E+00 1.4283E+00 7.0415E-01 2.5155E+01 2.9988E-01 4.0056E-01 2.9924E-01 3.2373E-04 2.2231E-10 3.4073E-20 1.4106E-33	STAND ING SHOCK 9.6307E+03 1.2862E+02 4.8043E+01 4.5934E+02 1.211E+01 1.6465E+00 7.3167E-01 5.3371E+00  - MOLE FRACTIONS 3.5835E-01 2.9901E-01 3.2692E-01 1.5708E-02 6.6220E-06 1.2850E-11 1.2074E-19	REFLECTED SHOCK 1.4196E+04 1.4812E+02 5.7907E+01 5.5867E+02 1.3422E+01 1.7071E+00 1.6551E+00 7.3487E-01 5.3570E+00  3.9581E-01 2.4409E-01 3.5583E-02 6.7201E-05 1.1555E-09 1.8435E-16

P1 =	5.00E+04 N/SQ-	us 1= 9.20E+0	3 M/SEC		P1 =	5.00E+04 N/SQ-M	US 1= 9.60E+0	3 M/SEC
	HOUSEN SHOCK	STANDING SHOCK	REFLECTED SHOCK			MONTHS SHOCK	CTANDENC CHOCK	055150750 64064
_					_	HOVING SHOCK		
: -	1.2245E+03	1.0177E+04.	1.5018E+04		P.	1.3351E+03	1.1257E+04	1.6644E+04
Ţ	8.2107E+01	1.3263E+02	1.5238E+02		T	8.5640E+01	1.4034E+02	1.6070E+02
, RHD	1.0296E+01	4-8458E+01	5.8503E+01		RHO	1.0458E+01	4.9072E+01	5.9314E+01
н	- 2.6951E+02	4.8040E+02	5.8452E+02		H.	2.9344E+02	5.2368E+02	6.3775E+02
Α .	9.1673E+00	1.2392E+01	1.3753E+01		A	9.5433E+00	l.2954E+01	1.4426E+01
S	1.5680E+00	1.66298+00	1.7245E+00		S	1.5984E+00	1.6955E+00	1.7594E+00
Ζ.	1.4485E+00 ·	1.58346+00	1.6847E+00		Z	1.4908E+00	1.6347E+00	1.7461E+00
GAME	7.0664E-01	7.3121E-01	7.3680E-01	•	GAME	. 7.1336E-01	7.3150E-01	7.4164E-01
Ü	2.5742E+01	5.4754E+00	5.4847E+00		Ü	2.6901E+01	- 5.7391E+00	5.7483E+00
•			•	•				
SPECIE	s	- MOLE FRACTIONS			SPECIE	s <del></del>	- MOLE FRACTIONS	
· E-	3.0962E-01	3.6845F-01	4.0642E-01		E-	3.2921E-01	3.8826E-01	4.2731E-01
. 🖈	3.8119E-01	2.82856-01	2. 2877E-01		A	3.4232E-01	2.5248E-01	l.9952E-01
A+	3.0877E-01	3.2895E-01	- 3.2330E-01		A+	3.2773E-01	3.3028E-01	3.1926E-01
A++	4.2371E-04	1-9735E-02	4.1404E-02		A++	7.4185F-04	2.8939E-02	5.3686E-02
A+++	4.2091E-10	1.20668-05	1.0404E-04		A+++	1.5944E-09	3.3887E-05	2.2478E-04
A++++ .		3.9633E-11	2.7098E-09		A++++	1.2504E-18	2.8055E-10	1.2381E-08
AV ·	8.9195E-33	7.3152E-19	7.3887E-16		AV	4.1939E-31	1.6974E-17	8.8786E-15
AVI	1.1201E-49	4.2795E-29	1.2446E-24		IVA	3.0289E-47	4.3072E-27	4.9902E-23
AVII	3.0058E-72	1.6773E-42	4. 2551E- 36		AVII	9.2068E-69	1.1796E-39	8.2449E-34
LIIVA	0.	6.2573E-59			AVILI	3.5407E-95	4.2930E-55	3. 7969E-47
. 44111	0.	0.23135-37	3.03702-30		AVILL	3.34076-73	4.27302-77	38 1 70 75 741
	•	•				•		•
*,	+							•
PL =	5.00E+04 N/SQ-H	. US1= 9.40E+0	3 M/SEC		P1 = 1	5.00E+04 N/SQ-H	. US1= 9.80E+0	3 M/SEC
•	*				•		•	
	MOVING SHOCK		REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.27936+03	1.0716E+04	1.5832E+04		P	1.3920E+03	1.1794E+04	1.7447E+04
T	8.3830E+01	l.3653E+02	1.5657E+02		T	8.7544E+01	1.4405E+02	1.6479E+02
RHO	1.0385E+01	4.8788E+01	5.8955E+01		RHO	1.0513E+01	4.9290E+01	5.95526+01
H .	2.8135E+02	5.0182E+02	6.1091E+02		н	3.0578E+02	5.4591E+02	6.6502E+02
Α.	9.3503E+00	1.2672E+01	- 1.4088E+01		Ā	9.7466E+00	1. 3237E+01	1.4767E+01
S	1.5832E+00	1.6792E+00	1.7420E+00		Š	1.6136E+00	1.7117E+00	1.7768E+00
Ž	1.4695E+00	1.6088E+00	1.7151E+00		ž	1.5124E+00	1.6611E+00	1.7779E+00
GAME	7.0973E-01	7.3112E-01	7.3909E-01		GAME	7.17496-01	7.3233E-01	7.4437E-01
U	2.6322E+01	5.6090E+00	5.6192E+00	• •	U	2.7474E+01	5. 8663E+00	5.8767E+00
Ü	2.03220.01	3100302.00	J. 01 72 C 70 0		•	2.14/46401	3. 00035400	3.810/E+UU
SPECIE	s	- MOLE FRACTIONS		•	SPECIES		- MOLE FRACTIONS	
•	-						•	
E	3.1948E-01				E- '	3.3880E-01	· 3.9798E-01	4.3754E-01
A	3.6160E-01	2.6736E-01	2.1387E-01		A	3.2339E-01	2.3816E-01	1.8564E-01
A+	3.1836E-01	3.3004E-01	3.2156E-01		'A+	3.3682E-01	3.2980E-01	3.1642E-01
A++ .	5.5955E-04	2.4160E-02	4.7461E-02		A++	9.8762E-04	3-4009E-02	6.0082E-02
A+++	8.1467E-10	2.0724E-05	1.5540E-04		A+++	3.1542E-09	5.3027E-05	3.1675E-04
A++++	3.6628E-19	1.1010E-10	5.9603E-09		A++++	4.3363E-18	6.6140E-10	2.45408-08
AV	6.0048E-32	3.7668E-18	2.6787E-15		AV	2.9713E-30	6.7771E-17	2.7340E-14
AVI	1.7821E-48	4.7214E-28	8.4087E-24		ÂVI	5-1159E-46	3.3021E-26	2. 6629E-22
TIVA,	1.5580E-70	5.0827E-41	6.4974E-35		IIVA	4.9737E-67	2.1387E-38	8.9956E-33
AVIII	0.	6.1836€-57	1. 2206E-48		AV111.	2.1536E-92	2.1367E-53	9.63536-46
~ 7 2 2 2	• •	0 0 0 0 0 0 C - 3 1	** * TAGE_ 40		WA111.	ムチスノンひにってん	E+13015_33	フ。 ひょうよこうり

P1 = 1	5.00E+04 N/SQ-M	, US 1= 1.00E+0	4 M/SEC	P1 = 5.00E+04 N/SQ-M. US1= 1.04E+04 M/SEC
**		STANDING SHOCK		MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P	1.4499E+03	1.2330E+04	1-8246E+04	P 1.5686E+03 1.3354E+04 1.9804E+04
T *	8.9554E+01	1.4770E+02	1.6882E+02	T 9.3908E+01 1.5480E+02 1.768ZE+02
RHD	1.05526+01	4.9455E+01	5.9712E+01	RHO 1.0581E+01 4.9460E+01 15.9693E+01
н	3.1837E+02	5.6862E+02	6.9285E+02	H 3.4428E+02 6.1492E+02 7.4989E+02
A	9.96028+00	1.3524E+01	1.5110E+01	A 1.0412E+01 1.4107E+01 1.5805E+01
ŝ.	1.62876+00	1. 7280E+00		S 1.6590E+00 1.7609E+00 1.8290E+00
Z				
	1.5343E+00	1.6880E+00	1-8100E+00	
GAME	7.2201E-01	7. 3359E-01	7-4719E-01	GAME 7.3134E-01 7.3704E-01 7.5292E-01
· U	2.8046E+01	5.9882E+00	6.0052E+00	U 2.9176E+01 6.2709E+00 6.2650E+00
£DEC.164		- MOLE FRACTIONS		SPECIES MOLE FRACTIONS
SPECIES	3	- MULE FRACTIONS		SPECIES
E- '	3.4823F-01	4.07608-01	4.4753E-01	E- 3.6653E-01 4.2664E-01 4.6703E-01
A	3.0486E-01	2.2431E-01	1.7239E-01	A 2.6933E-01 1.9774E-01 1.4742E-01
A+	3.4559E-01	3.2867E-01	3.1308E-01	A+ 3.6176E-01 3.2476E-01 3.0486E-01
A++	1.3208E-03	3.9344E-02		A++ 2.3861E-03 5.0691E-02 7.9917E-02
A+++ -	6.3207E-09	8.0053E-05		A+++ 2.6143E-08 1.6679E-04 7.7731E-04
A++++				
	1.5409E-17	1.4639E-09		
AV	2.1991E-29	2.4535E-16	7.8492E-14	AV 1.2811E-27 2.5021E-15 5.5004E-13
AVI	9.3654E-45	2.19978-25	1.2838E-21	AVI 3.3150E-42 6.8015E-24 2.3573E-20
IIVA	3.1872E-65	3.1771E-37	8.4927E-32	AVII 1.2792E-61 4.2021E-35 5.3968E-30
111VA	6.2433E-90	8 • 1 09 7E – 5 Z	2.0065E-44	AVIII 3.9897E-85 5.9253E-49 5.5491E-42
			•	•
			•	
				•
	•			
<b>D</b> 1 -	5 00E+04 N/50-N		A M/SEC	Pl = 5.00F404 N/SO_M. IIS1= 1.04F404 M/SEC
P1 =	5.00E+04 N/SQ-	I _F USI= 1.02E+0	4 M/SEC	P1 = 5.00E+04 N/SQ-M, US1= 1.06E+04 M/SEC
Pi =	5.00E+04 N/SQ-M	I• USL≈ 1.02E+0	4 M/SEC	
P1 =	5.00E+04 N/SQ-M		4 M/SEC REFLECTED SHUCK	P1 = 5.00E+04 N/SQ-M, US1= 1.06E+04 M/SEC  MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	
	MOVING SHOCK 1.5088E+03	STANDING SHOCK 1.2854E+04	REFLECTED SHOCK 1.9030E+04	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04
P T	MOVING SHOCK 1.5088E+03 9.1674E+01	STAND ING SHOCK 1.2854E+04 1.5127E+02	REFLECTED SHOCK 1.9030E+04 1.7282E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04 T 9.6253E+01 1.5825E+02 1.8078E+02
P T RHO	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01	STANDING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04 T 9.6253E+01 1.5825E+02 1.8078E+02 RHO 1.0574E+01 4.9493E+01 5.99548E+01
P T RHO H	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02	STANDING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02	REFLECTED SHOCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04 T 9.6253E+01 1.5825E+02 1.8078E+02 RHO 1.0574E+01 4.9493E+01 5.9548E+01 H 3.5761E+02 6.3886E+02 7.7910E+02
P T RHO H	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01	STANDING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7-2105E+02 1.5456E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04 T 9.6253E+01 1.5825E+02 1.8078E+02 RHO 1.0574E+01 4.9493E+01 5.9548E+01 H 3.5761E+02 6.3886E+02 7.7910E+02 A 1.0646E+01 1.4397E+01 1.6154E+01
P T RHO H A S	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00	STANDING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00	REFLECTED SHOCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04 T 9.6253E+01 1.5825E+02 1.8078E+02 RHO 1.0574EE+01 4.9493E+01 5.5.9548E+01 H 3.5761E+02 6.3886E+02 7.7910E+02 A 1.0646E+01 1.4397E+01 1.6154E+01 S 1.6740E+00 1.768E+00 1.8865E+00
P T RHO H A S	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00	STANDING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04 T 9.6253E+01 1.5825E+02 1.8078E+02 RHO 1.0574E+01 4.9493E+01 5.9548E+01 H 3.5761E+02 6.3886E+02 7.7910E+02 A 1.0646E+01 1.4397E+01 1.6154E+01 S 1.6740E+00 1.7768E+00 1.8465E+00 2 1.6009E+00 1.7721E+00 1.9101E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04 T 9.6253F+01 1.5825E+02 1.8078E+02 RHO 1.0574E+01 4.9493E+01 5.9548E+01 H 3.5761E+02 6.3886E+02 7.7910E+02 A 1.0646E+01 1.4397E+01 1.615E+01 S 1.6740E+00 1.7768E+00 1.8465E+00 Z 1.6009E+00 1.7721E+00 1.9101E+00 GAME 7.3547E-01 7.3912E-01 7.5573E-01
P T RHO H A S	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04 T 9.6253E+01 1.5825E+02 1.8078E+02 RHO 1.0574E+01 4.9493E+01 5.9548E+01 H 3.5761E+02 6.3886E+02 7.7910E+02 A 1.0646E+01 1.4397E+01 1.6154E+01 S 1.6740E+00 1.7768E+00 1.8465E+00 2 1.6009E+00 1.7721E+00 1.9101E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8613E+01	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHOCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00	MOVING SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04 T 9.6253E+01 1.5825E+02 1.8078E+02 RHO 1.0574E+01 4.9493E+01 5.9548E+01 H 3.5761E+02 6.3886E+02 7.7910E+02 A 1.0646E+01 1.4397E+01 1.6154E+01 S 1.6740E+00 1.7768E+00 1.8465E+00 2. 1.6009E+00 1.7721E+00 1.9101E+00 GAME 7.3547E-01 7.3912E-01 7.5573E-01 U 2.9735E+01 6.3594E+00 6.3943E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8613E+01	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01	REFLECTED SHOCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 1.6293E+03 1.3879E+04 2.0563E+04 T 9.6253F+01 1.5825E+02 1.8078E+02 RHO 1.0574E+01 4.9493E+01 5.9548E+01 H 3.5761E+02 6.3886E+02 7.7910E+02 A 1.0646E+01 1.437FE+01 1.615E+01 S 1.6740E+00 1.7768E+00 1.8465E+00 Z 1.6009E+00 1.7721E+00 1.9101E+00 GAME 7.3547E-01 7.3912E-01 7.5573E-01
P T RHO H A S Z GAME U	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8613E+01	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHOCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   1.6293E+03   1.3879E+04   2.0563E+04   T   9.6253E+01   1.5825E+02   1.8078E+02   RHO   1.0574E+01   4.9493E+01   5.9548E+01   H   3.5761E+02   6.3886E+02   7.7910E+02   A   1.0646E+01   1.4379TE+01   1.6154E+01   S   1.6740E+00   1.772E+00   1.9101E+00   CAME   7.3547E+01   7.3912E+01   7.5973E+01   0.3594E+00   0.3943E+00   CAME   7.3547E+01   6.3594E+00   6.3943E+00   CAME   7.3547E+01   6.3594E+00   6.3943E+00   CAME   7.3547E+01   6.3594E+00   6.3943E+00   CAME   7.3547E+01   6.3594E+00   6.3943E+00   CAME   7.5547E+01   6.3594E+00   6.3943E+00   CAME   7.5547E+01   6.3594E+00   6.3943E+00   CAME   7.5547E+01   6.3594E+00   6.3943E+00   CAME   7.5547E+01   6.3594E+01   6.3943E+00   CAME   7.5547E+01
PTRHOHAAS SZGAME U	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8613E+01	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHOCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   1.6293E+03   1.3879E+04   2.0563E+04   1.5825E+02   1.8078E+02   1.8078E+02   1.8078E+02   1.8078E+02   1.8078E+02   1.8078E+02   1.8078E+01   1.6158E+01   1.6
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 7.2672E-01 2.8613E+01 S	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8426E+00 7.5005E-01 6.1307E+00	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   1.6293E+03   1.3879E+04   2.0563E+04   T   9.6253E+01   1.5825E+02   1.8078E+02   RHO   1.0574E+01   4.9493E+01   5.9548E+01   H   3.5761E+02   6.3886E+02   7.7910E+02   A   1.0646E+01   1.437E+01   1.6154E+01   S   1.6740E+00   1.7768E+00   1.8465E+00   2. 1.6009E+00   1.7721E+00   1.9101E+00   GAME   7.3547E-01   7.3912E-01   7.5573E-01   U   2.9735E+01   6.3594E+00   6.3943E+00   SPECIES   MOLE FRACTIONS   MOLE FRACTIONS   FRACTIONS   MOLE FRACTIONS   FRACTIONS   MOLE F
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8613E+01 3.5748E-01 2.8681E-01 3.5594E-01	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   1.6293E+03   1.3879E+04   2.0563E+04   T   9.6253F+01   1.5825E+02   1.8078E+02   RHO   1.0574E+01   4.9493E+01   5.9548E+01   H   3.5761E+02   6.3886E+02   7.7910E+02   A   1.0646E+01   1.4377E+01   1.615E+01   S   1.6740E+00   1.7768E+00   1.8465E+00   2.16009E+00   1.7721E+00   1.9101E+00   GAME   7.3547E-01   7.3912E-01   7.5573E-01   U   2.9735E+01   6.3594E+00   6.3943E+00   SPECIES   MOLE   FRACTIONS   FRACT
P T RHO H A S Z GAME U SPECIE E-A A++	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8613E+01 3.5748E-01 2.8661E-01 3.5394E-01 1.7729E-03	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7453E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHOCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00  4.5735E-01 1.5966E-01 3.0923E-01 7.3179E-02	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   1.6293E+03   1.3879E+04   2.0563E+04   T   9.6253E+01   1.5825E+02   1.8078E+02   RHO   1.0574E+01   4.9493E+01   5.9548E+01   H   3.5761E+02   6.3886E+02   7.7910E+02   A   1.0646E+01   1.4379E+01   1.6154E+01   S   1.6740E+00   1.772IE+00   1.8465E+00   2. 1.6009E+00   1.772IE+00   1.910IE+00   GAME   7.3547E-01   7.3912E-01   7.5573E-01   U   2.9735E+01   6.3594E+00   6.3943E+00   SPECIES
P T RHO H A S Z GAME U SPECIE E- A A++ A+++	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5546E+01 2.8613E+01 3.5748E-01 2.8661E-01 3.5394E-01 1.7729E-03 1.2799E-03	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHOCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00  4.5735E-01 1.5966E-01 3.0923E-01 7.3179E-02 5.8653E-04	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   1.6293E+03   1.3879E+04   2.0563E+04   T   9.6253E+01   1.5825E+02   1.8078E+02   RHO   1.0574E+01   4.9493E+01   5.9548E+01   H   3.5761E+02   6.3886E+02   7.7910E+02   A   1.0646E+01   1.437E+01   1.6154E+01   S   1.6740E+00   1.7768E+00   1.8465E+01   S   1.6740E+00   1.772E+00   1.9101E+00   GAME   7.3547E-01   7.3912E-01   7.5573E-01   U   2.9735E+01   6.3594E+00   6.3943E+00   SPECIES   MOLE   FRACTIONS   FRA
P T RHO H A S Z GAME U SPECIE E-A A+ A++ A+++	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8661E+01 3.5748E-01 2.8661E-01 3.5394E-01 1.7729E-03 1.2799E-08 5.5646E-17	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   1.6293E+03   1.3879E+04   2.0563E+04   T   9.6253E+01   1.5825E+02   1.8078E+02   RHO   1.0574E+01   4.9493E+01   5.9548E+01   H   3.5761E+02   6.3886E+02   7.7910E+02   A   1.0646E+01   1.4379E+01   1.6154E+01   S   1.6740E+00   1.7768E+00   1.8465E+00   2.16009E+00   1.7721E+00   1.9101E+00   GAME   7.3547E-01   7.3912E-01   7.5573E-01   U   2.9735E+01   6.3594E+00   6.3943E+00   SPECIES
P T RHO H A S Z GAME U SPECIE E-A A+++ A+++ A+++ AV	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8613E+01  3.5748E-01 2.8661E-01 3.5394E-01 1.7729E-03 1.2799E-08 5.5646E-17	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7453E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00  4.5735E-01 1.5966E-01 3.0923E-01 7.3179E-02 5.8653E-04 8.5019E-08 2.1264E-13	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P
P T RHO H A S GAME U SPECIE E— A A + A + + A + + + A + + + A V I	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8613E+01 5.5748E-01 2.8681E-01 1.7729E-03 1.2799E-08 5.5646E-17 1.6561E-28 1.7740E-43	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00  4.5735E-01 1.5966E-01 3.0923E-01 7.3179E-02 5.8653E-04 8.5019E-08 2.1264E-13 5.6874E-21	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   1.6293E+03   1.3879E+04   2.0563E+04   T   9.6253E+01   1.5825E+02   1.8078E+02   RHO   1.0574E+01   4.9493E+01   5.9548E+01   H   3.5761E+02   6.3886E+02   7.7910E+02   A   1.0646E+01   1.4377E+01   1.615E+01   S   1.6740E+00   1.7768E+00   1.8465E+00   2. 1.6009E+00   1.772IE+00   1.910IE+00   GAME   7.3547E-01   7.3912E-01   7.5573E-01   U   2.9735E+01   6.3594E+00   6.3943E+00   SPECIES
P T RHO H A S Z GAME U SPECIE E-A A+A++ A+++ AVI AVI I	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8613E+01  3.5748E-01 2.8661E-01 3.5394E-01 1.7729E-03 1.2799E-08 5.5646E-17	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00  4.5735E-01 1.5966E-01 3.0923E-01 7.3179E-02 5.8653E-04 8.5019E-08 2.1264E-13	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   1.6293E+03   1.3879E+04   2.0563E+04   T   9.6253E+01   1.5825E+02   1.8078E+02   RHO   1.0574E+01   4.9493E+01   5.9548E+01   H   3.5761E+02   6.3886E+02   7.7910E+02   A   1.0646E+01   1.4379E+01   1.6154E+01   S   1.6740E+00   1.7768E+00   1.8465E+00   2.1.6009E+00   1.7721E+00   1.9101E+00   GAME   7.3547E-01   7.3912E-01   7.5573E-01   U   2.9735E+01   6.3594E+00   6.3943E+00   SPECIES   MOLE FRACTIONS   FRACT
P T RHO H A S GAME U SPECIE E— A A + A + + A + + + A + + + A V I	MOVING SHOCK 1.5088E+03 9.1674E+01 1.0575E+01 3.3120E+02 1.0183E+01 1.6439E+00 1.5564E+00 7.2672E-01 2.8613E+01 5.5748E-01 2.8681E-01 1.7729E-03 1.2799E-08 5.5646E-17 1.6561E-28 1.7740E-43	STAND ING SHOCK 1.2854E+04 1.5127E+02 4.9532E+01 5.9164E+02 1.3812E+01 1.7443E+00 1.7155E+00 7.3517E-01 6.1158E+00	REFLECTED SHUCK 1.9030E+04 1.7282E+02 5.9752E+01 7.2105E+02 1.5456E+01 1.8115E+00 1.8428E+00 7.5005E-01 6.1307E+00  4.5735E-01 1.5966E-01 3.0923E-01 7.3179E-02 5.8653E-04 8.5019E-08 2.1264E-13 5.6874E-21	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   1.6293E+03   1.3879E+04   2.0563E+04   T   9.6253E+01   1.5825E+02   1.8078E+02   1.8078E+01   1.8158E+01

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	MOUTHS SHOW		:		MONTHS SHOEK	CTANDING SUCCE	DEFLECTED SUDGE
_		STANDING SHOCK		_	MOVING SHOCK		
P	1.6911E+03	1. 4381E+04	2.13126+04	P T	1.9157E+03	1.6135E+04	2.3977E+04 1.9883E+02
Ţ	9.8697E+01	1.61676+02	1.8474E+02	RHO	1.0776E+02	1.7355E+02 4.8782E+01	5.8318E+01
RHO	1.0556E+01	4.9387E+01	5.9335E+01		1.0459E+01	7. 5093E+02	9.1819E+02
н	3.7118E+02	6.6304E+02	8.0880E+02	H	4.2066E+02	1.5748E+01	1.7762E+01
A	1.0878E+01	1.4693E+01	1.6505E+01		1.1638E+01	1. 8499E+00	1.9255E+00
S	1.6889E+00	1.7931E+00	1.8639E+00	S	1.7406E+00 1.6997E+00	1.9058E+00	2.0678E+00
2	1.6231E+00	1.8011E+00	1.9443E+00	Z Gam e		7. 4978E-01	7.6732E-01
GAME U	7.3868E-01	7.4135E-01	7.5846E-01	U	7.3945E-01	6.9165E+00	7.0423E+00
U	3.0292E+01	6.4815E+00	6.5246E+00	U	3.2228E+01	0. 71072700	1.04232400
SPECIE	s	MOLE FRACTIONS		SPECIE	s <del></del>	- MOLE FRACTIONS	
E-	3.8390E-01	4.4477E-01	4.8568E-01	E-	4.1165E-01	4.7529E-01	5.1641E-01
Ā	2.3652E-01	1.7356E-01	1.2480E-01	Ā	1.8802E-01	1.3529E-01	9.0788E-02
A+	3.7526E-01	3-1887E-01	2.9467E-01	Ä÷	3.8900E-01	3.0436E-01	2.7208E-01
A++	4.3164E-03	6.2480E-02	9.3551E-02	A++	1.1324E-02	8.4261E-02	1.1786E-01
A+++	1.0969E-07	3.1302E-04	1.3010E-03	A+++	1.1767E-06	8.0369E-04	2.8676E-03
A++++	2.7810E-15	2.1189E-08	4.3581E-07	A++++	2.1190E-13	1.4119E-07	2.2984F-06
AV	7.8040E-26	1.91348-14	3. 2086E-12	AV	7.1822E-23	4.3479E-13	5.1995E-11
IVA	1.2640E-39	1.3908E-22	3.3111E-19	I VA	2.4454E-35	1.4571E-20	2. 1868E-17
AVII	5.8804E-58	3.0957E-33	2.3363E-28	AVII	6.9069E-52	2.3376E-30	9.1754E-26
111VA	3.3803E-80	1.9829E-46	9.0986E-40	1 1 1 VA	4.7148E-72	1.5355E-42	2. 9536E-36
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		•					
P1 =	5.00E+04 N/SQ-M	, US1= 1.10E+0	4 M/SEC	P1 = 1	5.00E+04 N/SQ-M	. US1= 1.20E+0	4 M/SEC
			•	-			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.7539E+03	1.4879E+04	2.2058E+04	Р	2.0853E+03	1.7483E+04	2.6072E+04
T	1.0122E+02	1.6508E+02	1.8870E+02	ī	1.1413E+02	1.8214E+02	2.0913E+02
RHD	1.0532E+01	4.9241E+01	5.9074E+01	RHO	1.0431E+01	4.8411E+01	5.7822E+01
н	3.8500E+02	6.8762E+02	-8.3900E+02	н	4.5792E+02	8.1705F+02	1.0010E+03
A	1.1106E+01	1.4991E+01	1.6858E+01	A	1.2109E+01	1.6522E+01	1.8668E+01
S	1.7037E+00	1.8093E+00	1.8814E+00	S	1.7761E+00	1.8899E+00	· 1.9682E+00
Z	1.6452E+00	1.8305E+00	1.9788E+00	ž	1.7515E+00	1.9827E+00	2.1562E+00
GAME	7.4062E-01		7.6109E-01	GAME	7.3345E-01	7.5589E-01	7.7287E-01
· U	3.0846E+01	6.6043E+00	6.6545E+00	. U	3.3620E+01	7. 2776F+00	7.4173E+00
SPECIE	S	- MOLE FRACTIONS		SPECIES	·	- MOLE FRACTIONS	
E-	3.9216E-01	4.5370E-01	4.9466E-01	E-	4-2906E-01	4.9564E-01	5.3621E-01
A	2.2145E-01	1.6202E-01	. 1.1441E-01	A	1.6167E-01	1.1174E-01	7.1425E-02
A+ .	3.8063E-01	3.1526E-01	2.8886E~01	A+	3.8948E-01	2.9103E-01	2.5318E-01
A++	5.76298-03	6.8597E-02	1.00426-01	A++	1.9784E-02	1.00166-01	1.3453E-01
A+++	2.2196E-07	4.1757E-04	1.6496E-03	A+++	4.8420E-06	1.4328E-03	4.6498E-03
A++++	1.0052E-14	3.7646E-08	7.1450E-07	A+++	2.8700E-12	4.6476E-07	6.5575E-06
AV	5.9025E-25	4.9146E-14	7.3223E-12	AV	4.42358-21	3.1510E-12	3.0703E-10
AVI	2.3633E-38	5.65238-22	1.1432E-18	I VA	9.5883E-33	. 2.8305E-19	3.2158E-16
AVII	· 3.7576E-56	2.28138-32	1.3660E-27	I IVA	3.2295E-48	1.6091E-28	4.2603E-24
IIIVA	9.14146-78	2.9460E-45	9.9371E-39	I I I VA	3.8893E-67	4.7213E-40	5.3539E-34

P1 =	5.00E+04 N/SQ-M	. US1= 1.25E+0	4 M/SEC	P1 = 5	.00E+04 N/SQ-M	. US1= 1.35E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ,	2.2625E+03	1.8953E+04	2.8340E+04	Þ	2.6410E+03	2. 2220E+04	3.3481E+04
T	1.2023E+02	1.9095E+02	2.19916+02	Ť	1.3151E+02	2.0922E+02	2.4241E+02
RHO	1.0436E+01	4.816LE+01	5.7352E+01	RHD	1.0525E+01	4. 7846E+01	5.6903E+01
H	4.9679E+02	8.8624E+02	1.0875E+03	H	5.7938E+02	1.0337E+03	1.27386+03
Ä	1.2562E+01	1.7313E+01	1.9607E+01	Ä	1.3482F+01	1.8932E+01	2.1529E+01
ŝ	1.8114E+00	1.9294E+00	2-0114E+00	š	1.8814E+00	2.0071E+00	2.0953E+00
ž	1.8031E+00	2.0609E+00	2.2470E+00	· ž	1.9080E+00	2.2197E+00	2.4272E+00
GAME	7.2791E-01	7.6170E-01	7.7800E-01	GAME	7.2442E-01	7.7181E-01	7.8776E-01
U .	3,5020E+01	7.6212E+00	7.78898+00	U	3.7853E+01	8. 3670E+00	8.5927E+00
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SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E∽	4.4540E-01	5.1478E-01	5.5496E-01	E-	4.7589E-01	5.4949E-01	5.8801E-01
Ã	1.4027E-01	9.1246E-02	5.5188E-02	Ā	1.0733E-01	5.8881E-02	3.2007E-02
Ã+	3.8329E-01	2.7556E-01	2.31986-01	Ä+	3.57766-01	2.3960E-01	1.8713E-01
A++	3.1029E-02	1.1600E-01	1.5064E-01	A++	5.8923E-02	1.4621E-01	1.7779E-01
A+++	1.5770E-05	2.4038E-03	7. 2120E-03	A+++	9.4907E-05	5.8101E-03	1.4973E-02
A++++	2.58998-11	1.3816E-06	1.74246-05	A++++	7.8716E-10	9.43885-06	9.5776E-05
AV	1.4628E-19	1.9559E-11	1.63116-09	- AV	3.5219E-17	5.0981E-10	3.1424E-08
AVI	1.5590E-30	4.4207E-18	4.07636-15	ÄVI	4.7817E-27	6.1698E-16	3.7979E-13
AVII	4.4348E-45	8.1291E-27	1.6051E-22	AVII	4.0148E-40	9.4561E-24	1.0590E-19
IIIVA	6.4613E-63	9.6033E-38	7.3277E-32	IIIVA	3.0658E-56	1.3790E-33	4.9179E-28
'. P1 =	5.00E+04 N/SQ-M	, US1= 1.30E+0	4 M/SEC	P1 = 5	.00E+04 N/SQ-M	. USI= 1.40E+0	4 M/SEC
	MOUTHS SUSSE	CT.110 1110 CHOCK	055155750 64064		MUNITING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ			REFLECTED SHOCK	. р	2.8416E+03	2.3986E+04	3.6286E+04
Ť	2.4479E+03	2.0561E+04	3.0822E+04	· •	1.3686E+02	2.1865E+02	2.5426E+02
RHO	1.2600E+02	2.0002F+02	2.3091E+02	RHO .	1.0580E+01	4. 7706E+01	5.6676E+01
H	1.0473E+01	4.80316+01	5.7133E+01	H	6.2307E+02	1.11186+03	1.3733E+03
A	5.3728E+02	9.5867F+02	1.1765E+03	· · · · · · · · · · · · · · · · · · ·	1.39616+01	1. 9755E+01	2.25316+01
.S	1.3017E+01	1.8120E+01	2.05516+01	Ŝ	1.9162E+00	2.04536+00	2.1370E+00
· 3 Z	1.8465E+00	1.9685E+00	2.0532E+00	ž	1.9624E+00	2.2995E+00	2.51816+00
GAME	1.8550E+00	2.14016+00	2.3363E+00	GAME	7.2573E-01	7. 7622E-01	7.9290E-01
U	7.2494E-01 3.6434E+01	7.6704E-01 7.9519E+00	7.8284E~01 8.1840E+00	U	3.9275E+01	8.7459E+00	9.0141E+00
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SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	4.6092E-01	5.3274E-01	5.7197E-01	€-	4.9042E-01	5.65128-01	6.0287E-01
Ā	1.2255E-01	7.3676E-02	4. 2372E-02	A	9.3883E-02	4.6599E-02	2.3901E-02
A+	3.7218E-01	2.5827E-01	2.10016-01	A+	3.4116E-01	2.1995E-01	1.6437E-01
A++	4.4305E-02	1.3148F-01	1.6502E-01	A++	7.4341E-02	1.5986E-01	1.8828E-01
A+++	4.1816E-05	3.8299E-03	1.05856-02	A+++	1.9204E-04	8.4539E-03	2.0370E-02
A++++	1.6342E-10	3.7692E-06	4. 2080E-05	A++++	3.1085E-09	2.2022E+05	2.0401E-04
AV	2.7916E-18	1.06776-10	7.4825E-09	AV	3.2765E-16	2.1847E-09	1.1923E-07
AV I	1.1581E-28	5.7499E-17	4. 1883E-14	IVA	1.2802E-25	5.6728E-15	2.9757E-12
AVII	2.0159E-42	3.1715E-25	4.5015E-21	IIVA	4.3799E-38	2.2654E-22	2.0279E-18
IIIVA	2.4253E-59	1.3832E-35	6.7320E-30	IIIVA	1.71558-53	1.0253E-31	2.7110E-26
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MOVING SHOCK STANDING SHOCK, REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 3.0496E+03 2.5804E+04 3.9209E+04	P 3.4887E+03 2.9606E+04 4.5392E+04
T . 1.4212E+02 . 2.2817E+02 2.6646E+02	T 1.5264E+02 2.4804E+02 2.9207E+02
RHD 1.0631E+01 4.7552E+01 5.6408E+01	RHO 1.0707E+01 4.7018E+01 5.5730E+01
H 6.6835E+02 1.1926E+03 1.4768E+03	H 7.6373E+02 1.3631E+03 1.6969E+03
A 1.4454E+01 2.0578E+01 2.3557E+01	A 1.5482E+01 2.2288E+01 2.5683E+01
S 1.9509E+00 2.0828E+00 2.1782E+00	S 2.0201E+00 2.1582E+00 2.2594E+00
Z 2.0184E+00 2.3783E+00 2.6086E+00	Z 2.1348E+00 2.5386E+00 2.7887E+00
GAME 7.2830E-01 7.8038E-01 7.9834E-01	GAME 7.3558E-01 7.8894E-01 8.0984E-01
U 4.0697E+01 9.1419E+00 9.4481E+00	U 4.3556E+01 9.9531E+00 1.0358E+01
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
	•
E- 5.0455E-01 5.7953E-01 6.1666E-01	E- 5.3156E-01 6.0608E-01 6.4141E-01
A 8.1765E-02 3.6645E-02 1.7640E-02	A 6.0717E-02 2.1850E-02 9.2799E-03 A+ 2.8490E-01 1.5947E-01 1.0231E-01
A+ 3.2317E-01 2.0000E-01 1.4234E-01	A+ 2.8490E-01 1.5947E-01 1.0231E-01
A++ 9.0153E-02 1.7198E-01 1.9618E-01	A++ 1.2179E-01 1.9137E-01 2.0333E-01
A+++ 3.5681E-04 1.1796E-02 2.6769E-02	A+++ 1.0295E-03 2.1031E-02 4.2248E-02
A++++ 1.0600E-08 4.7684E-05 4.0967E-04	A++++ 9.0903E-08 1.9311E-04 1.4189E-03
AV. 2.4357E-15 8.3283E-09 4.1328E-07	AV 8.4638E-14 9.6831E-08 3.9374E-06
AVI 2.4938E-24 4.4005E-14 2.0455E-11	AVI 4-9074F-22 1-9218F-12 6-9082F-10
AVII 3.0391E-36 4.2586E-21 3.2286E-17	AVII 5.8488E-33 9.5552E-19 5.1027E-15
AVIII . 5.3055E-51. 5.4881E-30 . 1.1641E-24.	AV111 1.4808E-46 8.5695E-27 1.1322E-21
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P1 = 5.00E+04 N/SQ-M, US1= 1.50E+04 M/SEC	P1 = 5.00E+04 N/SQ-M, US1= 1.60E+04 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.7179E+03 3.1525E+04 4.8562E+04
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 6 3.2664F+03. 2.7710F+04 4.2288E+04 T 2.2 5:1.4737E+02 2.3814E+02 2.7917E+02	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.7179E+03 3.1525E+04 4.8562E+04 T 1.5798E+02 2.5822E+02 3.0569E+02
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3-71796+03 3.15256+04 4.85626+04 T 1.57986+02 2.58226+02 3.05696+02 RHO 1.07236+01 4.66296+01 ** 5.51506+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.2664F+03 2.7710F+04 4.2288F+04 T 1.4737F+02 2.3814F+02 2.7917E+02 RHD 1.0677F+01 4.730F+01: 5.6115F+01 H 7.1528F+02 1.2768F+03 1.5852F+03	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.7179E+03 3.1525E+04 4.8562E+04 T 1.5798E+02 2.5822E+02 3.0569E+02 RHO 1.0723E+01 4.6629E+01 **5.5150E+01 H 8.1375E+02 1.4520E+03 1.8126E+03
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.2664F+03. 2.7710E+04 4.2288E+04. T 11.4737E+02. 2.3814F+02 2.7917E+02 RHD 1.0677E+01 4.7309E+01 5.6115E+01 H 7.1528E+02 1.2768E+03 1.5852E+03 A 1.4961E+01 2.1438E+01 2.4616E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3-7179E+03 3-1525E+04 4.8562E+04 T 1.5798E+02 2.5822E+02 3.0569E+02 RHO 1.0723E+01 4.6629E+01 ** 5.5150E+01 H 8.1375E+02 1.4520E+03 1.8126E+03 A 1.6015E+01 2.3162E+01 2.6796E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.2664F+03 2.7710F+04 4.2288E+04 T 1.4737E+02 2.3814F+02 2.7917E+02 RHO 1.0677E+01 4.7309E+01 5.6115E+01 H 7.1528E+02 1.2768E+03 1.5852E+03 A 1.4961E+01 2.1438E+01 2.4616E+01 S 1.9855E+00 2.1211E+00 2.2193E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.7179E+03 3.1525E+04 4.8562E+04 T 1.5798E+02 2.5822E+02 3.0569E+02 RH0 1.0723E+01 4.6629E+01 4.5.5150E+01 H 8.1375E+02 1.4520E+03 1.8126E+03 A 1.6015E+01 2.3162E+01 2.6796E+01 S 2.0547E+00 2.1955E+00 2.3006E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.2664F+03 2.7710F+04 4.2288E+04 T 1.4737F+02 2.3814F+02 2.7917F+02 RHD 1.0677F+01 4.7309F+01 5.6115E+01 H 7.1528E+02 1.2768E+03 1.5852E+03 A 1.4961F+01 2.1438E+01 2.4616E+01 S 1.9855E+00 2.1211E+00 2.2193E+00 Z 2.0759F+00 2.4596E+00 2.6995E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3-7179E+03 3.1525E+04 4.8562E+04 T 1.5798E+02 2.5822E+02 3.0569E+02 RHO 1.0723E+01 4.6629E+01 **5.5150E+01 H 8.1375E+02 1.4520E+03 1.8126E+03 A 1.6015E+01 2.3162E+01 2.6796E+01 S 2.0547E+00 2.1955E+00 2.3006E+00 Z 2.1948E+00 2.6183E+00 2.8805E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.2664F+03 2.7710E+04 4.2288E+04 T 1.1473TE+02 2.3814F+02 2.7917E+02 RHO 1.0677E+01 4.7309E+01 5.6115E+01 H 7.1528E+02 1.2768E+03 1.5852E+03 A 1.4961E+01 2.1438E+01 2.4616E+01 S 1.9855E+00 2.1211E+00 2.2193E+00 Z 2.0759E+00 2.4596E+00 2.6995E+00 GME 7.3170E-01 7.8464E-01 8.0410E-01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3-71796+03 3.15256+04 4.85626+04 T 1.57986+02 2.58226+02 3.05696+02 RHO 1.07236+01 4.66296+01 4.5.51506+01 H 8.13756+02 1.45206+03 1.81266+03 A 1.60156+01 2.31626+01 2.67966+01 S 2.05476+00 2.19556+00 2.30066+00 Z 2.19486+00 2.61836+00 2.88056+00 GAME 7.39666-01 7.93496-01 8.15456-01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.2664F+03 2.7710F+04 4.2288E+04 T 1.4737F+02 2.3814F+02 2.7917F+02 RHD 1.0677F+01 4.7309F+01 5.6115E+01 H 7.1528E+02 1.2768E+03 1.5852E+03 A 1.4961F+01 2.1438E+01 2.4616E+01 S 1.9855E+00 2.1211E+00 2.2193E+00 Z 2.0759F+00 2.4596E+00 2.6995E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3-7179E+03 3.1525E+04 4.8562E+04 T 1.5798E+02 2.5822E+02 3.0569E+02 RHO 1.0723E+01 4.6629E+01 **5.5150E+01 H 8.1375E+02 1.4520E+03 1.8126E+03 A 1.6015E+01 2.3162E+01 2.6796E+01 S 2.0547E+00 2.1955E+00 2.3006E+00 Z 2.1948E+00 2.6183E+00 2.8805E+00
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.2664F+03 2.7710E+04 4.2288E+04 T 1.1473TE+02 2.3814F+02 2.7917E+02 RHO 1.0677E+01 4.7309E+01 5.6115E+01 H 7.1528E+02 1.2768E+03 1.5852E+03 A 1.4961E+01 2.1438E+01 2.4616E+01 S 1.9855E+00 2.1211E+00 2.2193E+00 Z 2.0759E+00 2.4596E+00 2.6995E+00 GME 7.3170E-01 7.8464E-01 8.0410E-01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3-7179E+03 3.1525E+04 4.8562E+04 T 1.5798E+02 2.5822E+02 3.0569E+02 RHO 1.0723E+01 4.6629E+01 4.5.5150E+01 H 8-1375E+02 1.4520E+03 1.8126E+03 A 1.6015E+01 2.3162E+01 2.6796E+01 S 2.0547E+00 2.1955E+00 2.3006E+00 Z 2.1948E+00 2.6183E+00 2.8805E+00 GAME 7.3966E-01 7.9349E-01 8.1545E-01 U 4.4968E+01 1.0366E+01 1.0834E+01
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.2664F+03 2.7710F+04 4.2288E+04 T 1.1473TE+02 2.3814F+02 2.7917E+02 RHO 1.0677E+01 4.7309E+01 5.6115E+01 H 7.1528E+02 1.2768E+03 1.5852E+03 A 1.4961E+01 2.1438E+01 2.4616E+01 S 1.9855E+00 2.1211E+00 2.2193E+00 Z 2.0759E+00 2.4596E+00 2.6995E+00 GME 7.3170E-01 7.8464E-01 8.0410E-01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3-71796+03 3.15256+04 4.85626+04 T 1.57986+02 2.58226+02 3.05696+02 RHO 1.07236+01 4.66296+01 4.5.51506+01 H 8.13756+02 1.45206+03 1.81266+03 A 1.60156+01 2.31626+01 2.67966+01 S 2.05476+00 2.19556+00 2.30066+00 Z 2.19486+00 2.61836+00 2.88056+00 GAME 7.39666-01 7.93496-01 8.15456-01
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3.2664F+03   2.7710E+04   4.2288E+04   1.4737E+02   2.781E+02   2.791FE+02   2.791FE+02   1.0677E+01   4.7309E+01   5.6115E+01   1.71528E+02   1.2768E+03   1.5852E+03   1.5852E+03   1.5852E+03   2.4616E+01   2.41616E+01   2.1211E+00   2.2193E+00   2.0759E+00   2.4596E+00   2.6995E+00   2.6995E+00   2.4596E+00   2.6995E+00   4.2139E+01   9.5432E+00   9.8976E+00   SPECIES   MOLE FRACTIONS	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3-71796+03   3.1525E+04   4.8562E+04   T   1.5798E+02   2.5822E+02   3.0569E+02   RHO   1.0723E+01   4.6629E+01   7.5.5150E+01   H   8.1375E+02   1.4520E+03   1.8126E+03   A   1.6015E+01   2.3162E+01   2.6796E+01   S   2.0547E+00   2.3162E+01   2.6796E+01   2.2066E+01   2.8805E+00   2.8805E+00   2.8805E+00   GAME   7.3966E+01   7.9349E+01   8.1545E-01   U   4.4968E+01   1.0366E+01   1.0834E+01   SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.2664F+03 2.7710F+04 4.2288E+04 T 1.4737E+02 2.3814E+02 2.7917E+02 RHO 1.0677E+01 4.7309F+01 5.6115E+01 H 7.1528E+02 1.2768E+03 1.5852E+03 A 1.4961E+01 2.1438E+01 2.4616E+01 S 1.9855E+00 2.1211E+00 2.2193E+00 Z 2.0759F+00 2.4596E+00 2.6995E+00 GAME 7.3170E-01 7.8464E-01 8.0410E-01 U 4.2139E+01 9.5432E+00 9.8976E+00  SPECIES	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3-71796+03   3.1525E+04   4.8562E+04   T   1.5798E+02   2.5822E+02   3.0569E+02   RHO   1.0723E+01   4.6629E+01   7.5.5150E+01   H   8.1375E+02   1.4520E+03   1.8126E+03   A   1.6015E+01   2.3162E+01   2.6796E+01   S   2.0547E+00   2.3162E+01   2.6796E+01   2.2066E+01   2.8805E+00   2.8805E+00   2.8805E+00   GAME   7.3966E+01   7.9349E+01   8.1545E-01   U   4.4968E+01   1.0366E+01   1.0834E+01   SPECIES
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 3.2664F+03. 2.7710F+04 4.2288E+04 7.1.4737E+02. 2.3814F+02. 2.7917E+02 8HD 1.6677E+01 4.7309E+01 5.66115E+01 9.1528E+02 1.2768E+03 1.5852E+03 9.1.4961E+01 2.1438E+01 2.4616E+01 9.1211E+00 2.2193E+00 7.2193E+00 7.2191E+00 7.2193E+00 7.2191E+00 7.2193E+00 7.2191E+00 7.2193E+00 7.2193E+00 7.2193E+00 7.2193E+00 9.8976E+00 9.8976E	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3.71799+03   3.15256+04   4.8562E+04   T   1.5798E+02   2.5822E+02   3.0569E+02   RHO   1.0723E+01   4.6629E+01   7.5.5150E+01   H   8.1375E+02   1.4520E+03   1.8126E+03   A   1.6015E+01   2.3162E+01   2.6796E+01   S   2.0547E+00   2.1955E+00   2.3006E+00   Z   2.1948E+00   2.6183E+00   2.8805E+00   GAME   7.3966E-01   7.9349E-01   8.1545E-01   U   4.4968E+01   1.0366E+01   1.0834E+01   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   MOLE FRACTIONS   FRACTIONS   FRACTIONS   SPECIES   MOLE FRACTIONS   6.5284E-01   A   5.1617E-02   1.6668E-02   6.5621E-03   A   5.1617E-02   1.6668E-02   6.5621E-03   A   5.1617E-02   1.6668E-02   6.5621E-03   A   5.1617E-02   1.6668E-02   6.5621E-03   A   5.1617E-02   1.6668E-02   A   5.621E-03
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3.2664F+03   2.7710E+04   4.2288E+04   1.4737E+02   2.381EF+02   2.7917E+02   RHD   1.0677E+01   4.7309E+01   5.6115E+01   H   7.1528E+02   1.2768E+03   1.5852E+03   1.5852E+03   1.4961E+01   2.4138E+01   2.4616E+01   5   1.9855E+00   2.1211E+00   2.2193E+00   2.0759E+00   2.4596E+00   2.6995E+00   GAME   7.3170E-01   7.8464E-01   8.0410E-01   U   4.2139E+01   9.5432E+00   9.8976E+00   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   FRACTIONS   FRACTIONS   FRACTIONS   1.2836E-01   6.2956E-01   A   7.0751E-02   2.8329E-02   1.2841E-02   A+   3.0429E-01   1.7931E-01   1.2139E-01	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3-7179E+03   3.1525E+04   4.8562E+04   T   1.5798E+02   2.5822E+02   3.0569E+02   RHO   1.0723E+01   4.6629E+01   7.5.5150E+01   H   8.1375E+02   1.4520E+03   1.8126E+03   A   1.6015E+01   2.3162E+01   2.6796E+01   S   2.0547E+00   2.1955E+00   2.3006E+00   Z   2.1948E+00   2.6183E+00   2.8805E+00   GAME   7.3966E+01   1.0366E+01   1.0834E+01   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   MOLE FRA
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3.2664F+03   2.7710F+04   4.2288E+04   T   1.4737E+02   2.3814E+02   2.7917E+02   RHD   1.0677E+01   4.7309F+01   5.6115E+01   H   7.1528E+02   1.2768E+03   1.5852E+03   A   1.4961E+01   2.1438E+01   2.4616E+01   S   1.9855E+00   2.1211E+00   2.2193E+00   Z   2.0759E+00   2.4596E+00   2.6995E+00   Z   2.0759E+00   2.4596E+01   8.0410E-01   U   4.2139E+01   9.5432E+00   9.8976E+00   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   M	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3-71796+03   3.15256+04   4.85626+04   T   1.57986+02   2.58226+02   3.05696+02   RHO   1.07236+01   4.66296+01   4.5.51506+01   H   8.13756+02   1.45206+03   1.81266+03   A   1.60156+01   2.31626+01   2.67966+01   S   2.05476+00   2.19556+00   2.30066+00   2   2.19486+00   2.61836+00   2.88056+00   GMME   7.39666-01   7.93496-01   8.15456-01   U   4.49686+01   1.03666+01   1.08346+01   SPECIES   The standard of the st
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3.2664F+03   2.7710E+04   4.2288E+04   T   1.4737E+02   2.3814F+02   2.7917E+02   RHD   1.0677E+01   4.7309E+01   5.6115E+01   H   7.1528E+02   1.2768E+03   1.5852E+03   A   1.4961E+01   2.1438E+01   2.4616E+01   S   1.9855E+00   2.1211E+00   2.2193E+00   Z   2.0759E+00   2.4596E+00   2.6995E+00   GAME   7.3170E-01   7.8464E-01   8.0410E-01   U   4.2139E+01   9.5432E+00   9.8976E+00   SPECIES   MOLE FRACTIONS   SPECIES   MOLE FRACTIONS   1.2841E-02   A   7.0751E-02   2.8329E-02   1.2841E-02   A   3.0429E-01   1.8278E-01   2.0127E-01   A++   6.2181E-04   1.6058E-02   3.4160E-02	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3-7179E+03   3.1525E+04   4.8562E+04   T   1.5798E+02   2.5822E+02   3.0569F+02   RHO   1.0723E+01   4.6629E+01   ** 5.5150E+01   H   8.1375E+02   1.4520E+03   1.8126E+03   A   1.6015E+01   2.3162E+01   2.6796E+01   5   2.9547E+00   2.1955E+00   2.3006E+00   2   2.1948E+00   2.6183E+00   2.8805E+00   GAME   7.3966E-01   7.9349E-01   8.1545E-01   U   4.4968E+01   1.0366E+01   1.0834E+01   SPECIES
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3.2664F+03   2.7710E+04   4.2288E+04   T   1.4737E+02   2.3814F+02   2.7917E+02   RHD   1.6677E+01   4.7309E+01   5.6115E+01   H   7.1528E+02   1.2768E+03   1.5852E+03   A   1.4961E+01   2.1438E+01   2.4616E+01   S   1.9855E+00   2.1211E+00   2.2193E+00   Z   2.0759E+00   2.4596E+00   2.6995E+00   Z   2.0759E+00   2.4596E+00   2.6995E+00   U   4.2139E+01   9.5432E+00   9.8976E+00   SPECIES   MOLE FRACTIONS   FRACTIONS   FRACTIONS   FRACTIONS   T.0751E-02   2.8329E-02   1.2841E-02   A   3.0429E-01   1.7931E-01   1.2139E-01   A++   1.0606E-01   1.8278E-01   2.0127E-01   A++   6.2181E-04   1.6058E-02   3.4160E-02   A+++   3.2424E-08   9.9485E-05   7.8428E-04   T.8428E-04	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3-71796+03   3.15256+04   4.85626+04   T   1.57986+02   2.58226+02   3.05696+02   RHO   1.07236+01   4.66296+01   4.5.51506+01   H   8.13756+02   1.45206+03   1.81266+03   A   1.60156+01   2.31626+01   2.67966+01   S   2.05476+00   2.19556+00   2.30066+00   2   2.19486+00   2.61836+00   2.88056+00   U   4.49686+01   1.03666+01   1.08346+01   U   4.49686+01   1.03666+01   1.08346+01   SPECIES
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3.2664F+03   2.7710F+04   4.2288E+04   T   1.4737E+02   2.3814E+02   2.7917E+02   RHD   1.0677E+01   4.7309E+01   5.6115E+01   H   7.1528E+02   1.2768E+03   1.5852E+03   A   1.4961E+01   2.1438E+01   2.4616E+01   S   1.9855E+00   2.1211E+00   2.2193E+00   Z   2.0759E+00   2.4596E+00   2.6995E+00   Z   2.0759E+00   2.4596E+00   2.6995E+00   U   4.2139E+01   9.5432E+00   9.8976E+00   SPECIES   MOLE FRACTIONS   P   S.432E+00   S.439E-01   S.439E-01   S.439E-01   A   7.0751E-02   3.28329E-02   3.2841E-02   A+	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3-71796+03   3-15256+04   4.85626+04   T   1.57986+02   2.58226+02   3.05696+02   RHO   1.07236+01   4.66296+01   4.5.51506+01   H   8.13756+02   1.45206+03   1.81266+03   A   1.60156+01   2.31626+01   2.67966+01   S   2.05476+00   2.19556+00   2.30066+00   2   2.19486+00   2.61836+00   2.88056+00   GME   7.39666-01   7.93496-01   8.15456-01   U   4.49686+01   1.03666+01   1.08346+01   SPECIES   The second of the secon
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3.2664F+03   2.7710E+04   4.2288E+04   1.4737E+02   2.3814F+02   2.7917E+02   RHO   1.0677E+01   4.7309E+01   5.6115E+01   H   7.1528E+02   1.2768E+03   1.5852E+03   A   1.4961E+01   2.1438E+01   2.4616E+01   S   1.9855E+00   2.1211E+00   2.2193E+00   Z   2.0759E+00   2.4596E+00   2.6995E+00   GAME   7.3170E-01   7.8464E-01   8.0410E-01   U   4.2139E+01   9.5432E+00   9.8976E+00   SPECIES   MOLE FRACTIONS   FRACTIONS   FRACTIONS   SPECIES   MOLE FRACTIONS   1.2846E-01   A   7.0751E-02   2.8329E-02   1.2841E-02   A+++   3.0429E-01   1.8278E-01   2.0127E-01   A+++   6.2181E-04   1.6058E-02   3.4160E-02   A++++   6.2181E-04   1.6058E-02   3.4160E-02   A++++   3.2424E-08   9.9485E-05   7.8428E-04   AV   1.5347E-14   3.0087E-08   1.3338E-06   AVI   3.8466E-23   3.1668E-13   1.2696E-10	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3-7179E+03   3.1525E+04   4.8562E+04   T   1.5798E+02   2.5822E+02   3.0569E+02   RHO   1.0723E+01   4.6629E+01   ** 5.5150E+01   H   8.1375E+02   1.4520E+03   1.8126E+03   A   1.6015E+01   2.3162E+01   2.6796E+01   S   2.0547E+00   2.1955E+00   2.3006E+00   Z   2.1948E+00   2.6183E+00   2.8805E+00   GAME   7.3966E+01   1.0366E+01   1.0834E+01   U   4.4968E+01   1.0366E+01   1.0834E+01   SPECIES   The standard of the s
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3.2664F+03   2.7710F+04   4.2288E+04   T   1.4737E+02   2.3814E+02   2.7917E+02   RHO   1.6677E+01   4.7309F+01   5.6115E+01   H   7.1528E+02   1.2768E+03   1.5852E+03   A   1.4961E+01   2.1438E+01   2.4616E+01   S   1.9855E+00   2.1211E+00   2.2193E+00   Z   2.0759E+00   2.4596E+00   2.6995E+00   Z   2.0759E+00   2.4596E+00   2.6995E+00   U   4.2139E+01   9.5432E+00   9.8976E+00   SPECIES   MOLE FRACTIONS   FRACTI	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3-71796+03   3.15256+04   4.85626+04   T   1.57986+02   2.58226+02   3.05696+02   RHO   1.07236+01   4.66296+01   4.5.51506+01   H   8.13756+02   1.45206+03   1.81266+03   A   1.60156+01   2.31626+01   2.67966+01   S   2.05476+00   2.19556+00   2.30066+00   2   2.19486+00   2.61836+00   2.88056+00   U   4.49686+01   1.03666+01   1.08346+01   U   4.49686+01   1.03666+01   1.08346+01   SPECIES   The standard of the stand
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3.2664F+03   2.7710E+04   4.2288E+04   1.4737E+02   2.3814F+02   2.7917E+02   RHO   1.0677E+01   4.7309E+01   5.6115E+01   H   7.1528E+02   1.2768E+03   1.5852E+03   A   1.4961E+01   2.1438E+01   2.4616E+01   S   1.9855E+00   2.1211E+00   2.2193E+00   Z   2.0759E+00   2.4596E+00   2.6995E+00   GAME   7.3170E-01   7.8464E-01   8.0410E-01   U   4.2139E+01   9.5432E+00   9.8976E+00   SPECIES   MOLE FRACTIONS   FRACTIONS   FRACTIONS   SPECIES   MOLE FRACTIONS   1.2846E-01   A   7.0751E-02   2.8329E-02   1.2841E-02   A+++   3.0429E-01   1.8278E-01   2.0127E-01   A+++   6.2181E-04   1.6058E-02   3.4160E-02   A++++   6.2181E-04   1.6058E-02   3.4160E-02   A++++   3.2424E-08   9.9485E-05   7.8428E-04   AV   1.5347E-14   3.0087E-08   1.3338E-06   AVI   3.8466E-23   3.1668E-13   1.2696E-10	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   3-7179E+03   3.1525E+04   4.8562E+04   T   1.5798E+02   2.5822E+02   3.0569E+02   RHO   1.0723E+01   4.6629E+01   ** 5.5150E+01   H   8.1375E+02   1.4520E+03   1.8126E+03   A   1.6015E+01   2.3162E+01   2.6796E+01   S   2.0547E+00   2.1955E+00   2.3006E+00   Z   2.1948E+00   2.6183E+00   2.8805E+00   GAME   7.3966E+01   1.0366E+01   1.0834E+01   U   4.4968E+01   1.0366E+01   1.0834E+01   SPECIES   The standard of the s

P1 = 9	5.00E+04 N/\$Q-M	. US1= 1.65E+0	4 M/SEC	P1 = 5	-00E+04 N/SQ-M.	US1= 1.75E+0	4 M/SEC
	MOUTING CHOOK			•	MONTHS SHOCK	CTANDING CHOCK	REFLECTED SHOCK
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		4.4465E+03	3.7320E+04	
<u> </u>	3.9540E+03	3.3447E+04	5.1784E+04	Ť			5.8365E+04
7	1.6342E+02	2. 6854E+02	3.1927E+02		1.7468E+02	2.8999E+02	3.4728E+02
RHO	1.0726E+01	4.6180E+01	5.4633E+01	RHO	1.0699E+01	4.5080E+01	5.3395E+01
н	8-6535F+02	1.5433E+03	1.9322E+03	H	9.7325E+02	1.7337E+03	2.1831E+03
A	· 1.6558E+01	2.4044E+01	2.7883E+01	A	1.7667E+01	2.5861E+01	3.0059E+01
S .	2.0891E+00	2.2322E+00	2.3398E+00	S	2.1576E+00	2.3054E+00	2.4182E+00
7	2.2558E+Q0	2.6971E+00	2.9688E+00	Z	2.3793E+00	2.8548E+00	3.1475E+00
GA™E	7.4372E-01	7.9820E-01	B.2026E-01	GAME	7.5101E-01	8.0785E-01	8.2661E-01
U	4.6374E+01	1.0798E+01	1.1320E+01	: 'U	4.9172E+01	1.1680E+01	1.2320E+01
SPECIE	s '	- MOLE FRACTIONS		SPECIES	·	MOLE FRACTIONS	
E-	5.5670E-01	6.2923E-01	6.6316E-01	· E-	5.7970E-01	6.4972E-01	6.8229E-01
À	4.3436E-02	1.2596E-02	4.6621E-03	Ā	2.9807E-02	6.9937E-03	2. 3151E-03
Ã+	2.4555E~01	1.2186E-01	6.9580E-02	Ä+	2.0673E-01	8.9110E-02	4.5691E-02
A++				Ä++	1.7832E-01	2.0377E-01	1.82726-01
	1.5180E~01	2.02248-01	1.9838E-01	A+++	5.4384E-03	4.8586E-02	7.6939E-02
A+++	2.5139E~03	3.3444E-02		A++++	3.1412E-06	1.82106-03	
A++++	5.8980E-07	6.4012E-04	4.1192E-03	AV			9.8942E-03
ÁV -	1.9259E-12	8.2374E-07	2.8649E-05		3.2575E-11	5.5439E-06	1.5490E-04
AVI	5.3033E-20	5.3184E-11	1.5754E-08	AVI	3.7761E-18	1.0472E-09	2.3211E-07
IIVA	4.7977E-30	1.1225E-16	4.6410E-13	AVII	2.17796-27	8.1583E-15	2.2898E-11
IIIVA	1.31768-42	5.5462E-24	5.1984E-19	ITIVA	5.3 20E-39	1.87116-21	1.0455E-16
P1 =	5.00E+04 N/SQ-M	. US1= 1.70E+0	4 M/SEC	P1 = 5	-00E+04 N/SQ-M,	US1= 1.80E+0	4 M/SEC
					MOVING CHOCK	CTANDING CHOCK	
_	MOVING SHOCK			P		STANDING SHOCK	REFLECTED SHOCK
P	4.1969E+03	3.5381E+04	:5,,5049E+04			⊴ - 3.9217E+04	6.1628E+04
T	1.6898E+02	2. 7922E+02	3.3321E+02	Ť .	1.8049E+02 '*		3.6103E+02
RHO.	1-0717E+01	4.5634E+01	5.4022E+01	RHO	1.0669E+01	4.4502E+01	5.2754E+01
н	9.1851E+02	1.6373E+03	2.0556E+03	H	1.0295E+03	1.8318E+03	2.3123E+03
. A	1.7110E+01	2.4953E+01	2.8978E+01	A	1.8227E+01	2.6753E+01	3.1098E+01
<b>S</b> .	2.1234E+00	2. 2693E+00	2.3791E+00	S	2-1916E+00	2.3403E+00	2.4564E+00
Z	2.3174E+00	2.7768E+00	3.0581E+00	2	2-441,2E+00	2.9306E+00	3.2358E+00
GAME	7.4755E-01	8.0309E-01	8.2407E-01	GAME	7.5403E-01	8.1220E-01	8.2786E-01
U	·4.7776E+01	1.1234E+01	1.1813E+01	U	5.0541E+01	1.2134E+01	1.2803E+01
SPECIE	s	- MOLE FRACTIONS		SPECTES		MOLE FRACTIONS	
E-	5.68486-01	6.3987E-01	6.7300E-01	E-	5.9036E-01	6.5877E-01	6.9095E-01
Ā	3.6169E-02	9.4014E-03	3. 2846E-03	Ā	2-4324E-02	5-2077E-03	1.6504E-03
Ã+	2.25986-01	1.0461F-01	5.6569E-02	Ä÷	1.8798E-01	7.5529E-02	. 3. 6928E-02
A++	1.6562E-01	2.04216-01	1.9170E-01	A++	1.8965E-01	2.0113E-01	. 1.7219E-01
A+++	3.7483E-03		6.8848E-02	A+++	7.6854E-03	5.6480E-02	8.3768E-02
A++++		4.0806E-02		A+++	6.7908E-06	2.8685E-03	1.4186E-02
	1.3915E-06	1.1038E-03	6.5359E-03	ÄV	1.2140E-10	1.28908-05	3. 1714E-04
AV	8.1876F-12	. 2.2128E-06	6.9134E-05	IVA	2.77176-17	3.9497E-09	
AVI	4.6887E-19	2.4840E-10	6.3870E-08	IIVA	3.8028E-26	5.5284E-14	7. 3658E-07
AVII	1.0924E-28	1.0281E-15	3. 5186E-12	IIIVA	2.58258-37		1.2310E-10 1.0342E-15:
AVILL	9.1617E-4 <u>1</u>	1.1231E-22	8.1703E-18	WATTY	40 20425-31	5 + > 100E - 50	1.03726717

P1 =	1.00E+05 N/SQ-	1, US1= 2.00E+0	3 M/SEC	P1 = .1	-00E+05 N/5Q-M	. US 1= 2.40E+0	3 M/SEC
	MUNIME CHUCK	CTANDING SHOCK	REFLECTED SHOCK		MONTHS SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	4.7899E+01	8- 4637E+01	2.6448E+02	. р	6-9069E+01	1.2773E+02	3.8402E+02
Ť	1.2892E+01	1.6278E+01	2.9254E+01	Ť		2.34026+01	3.9579E+01
RHO					1.8181E+01		
	3.7155E+00	5-1997E+00	9.03788+00	RHO	3.7990E+00	5.45826+00	9.6473E+00
H	1.2892E+01	1.6278E+01	2.9340E+01	H	1-8181E+01	2.3408E+01	4.1295E+01
A	3.5905E+00	4.0345E+00	5.3619E+00	A	4.2637E+00	4.8321E+00	5.8993E+00
<b>S</b> .	1.1353E+00	1.1361E+00	1.1540E+00	S	1.1618E+00	1.1627E+00	1.1806E+00
Z	1.0000E+00	1.0000E+00	1.0003E+00	Z	1.0000E+00	1.0000E+00	1.0057E+00
GAME	1.0000E+00	9.9999E-01	9.8247E-01	GAME	9.9991E-01	9.9773E-01	8.7430E-01
U .	4.5391E+00	3.2320E+00	3.1661E+00	υ	5.4900E+00	3.80246+00	3.5703E+00
SPECIE	s	- MOLE FRACTIONS		SPECIES	<del></del>	- MOLE FRACTIONS	
E-	4.6606E-10	6.5295E-08	3.1250E-04	E-	5.9218E-07	2.5142E-05	5.6973E-03
A	1.0000E+00	1.0000E+00	9.9938E-01	<b>A</b>	1.0000E+00	9.9995E-01	9. 8861E-01
A+	4-6606E-10	6.5295E-08	3.1250E-04	A+	5.9218E-07	2.5142E-05	5.6972E-03
A++	3-6182E-35	1.9529E-28	3.6574E-15	A++	7.4007E-25	4.4260E-19	7.8848E-11
A+++	4.1556E-76	9.3128E-61	3. 2834E-34	A+++	1.2129E-54	6.3605E-43	8.2662E-25
A++++	0.	0.	9.9566E-64	A++++	0.	2.80536-79	2.5905E-46
AV	. 0.	. 0.	0.	AV	0.	0.	5.2667E-75
AVI	0.	.0.	0.	IVA	0.	0.	0.
AVII	0.	0.	0.	IIVA	0.	0.	0.
IIIVA	0.	0.	2.	AVIII	0.	0.	0.
~****	0.	٠.	<b>9•</b> ,	WALLE	٧.	•	••
			·				
		•					•
			•				
Pl =	1.00E+05 N/SQ-M	. US 1= 2.20E+0	3 M/SEC	P1 = 1	.00E+05 N/SQ-#	. US1= 2.60E+0	3 M/SEC
							25515252 211251
2.75		STANDING SHOCK		•		STANDING SHOCK	
P	5.8003E+01	1.0487E+02	3.2275E+02	Ρ	8.1081E+01	1.5249E+02	4.4660E+02
Τ.	1.5416E+01	1.9658E+01	3.4668E+01	T	2.11826+01	2.7420E+01	1501 4.3666E+01
RHO	3.7624E+00	5.3345E+00	9.2932E+00	RHO	3.8278E+00	5.5603E+00	1.0103E+01
н,	. 1.5416E+01	1.9658E+Ol	3.5178E+01	н	2.1184E+01	2.7471E+01	4.7533E+01
A	3.9263E+00	4.4332E+00	5.7044E+00	A	4.6006E+00	5.2050E+00	6.0324E+00
S	1.1490E+00	1.1499E+00	1.1678E+00		1.1737E+00	1.1747E+00	1.1925E+00
Z	1.0000E+00	. 1.0000E+00	1.0018E+00	Z.	1.000000	1.0002E+00	1.01236+00
GA# F	9.9999E-01	9. 9976E-01	9.3696E-01	GAME	9.9921E-01	9.8784E-01	8.2320E-01
U	5.0154E+00	3.5253E+00	3.4025E+00	U	5.9619E+00	4.0845E+00	3.6483E+00
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E- ,,	2.6063E+08	1.8701E-06	1.7765E-03	E	7.1256E-06	1.8909E-04	1. 2192E-02
Ā	1.0000E+00	1.0000E+00	9.9645E-01	Ä	9.99998-01	9,9962E-01	9.7562E-01
A+	2.6063E-08	1.8701E-06	1.7765E-03	Ã+	7.1256F-06	1.8909E-04	1. 2192E-02
A++	1.7344E-29	5.82766-23	1.4262E-12	A++	4.6420E-21		1.1092E-09
A+++	1.4865E-65	3.2454E-51	1.3614E-28	A+++	3.5329E-47	2.7260E-36	2.6036E-22
A++++			2. 6092E-53	4+++		1.1726E-67	
	0.	0.			0.		
AV	0.	0.	4.5062E-86	AV	0.	0.	1.9794E-67
AVI	0.	. 0.	0.	AVI	0.	0.	0.
AVII -	0.	0.	. 0.	IIVA	0.	0.	. 0.
AV I I I	0.	0.	ି;0 <b>.</b>	IIIVA	0.	· O •	0.

	FOOCADD: NY 26-H	• 03 I= 2 • 00 E +0:	M/366	P1 = 1.	-005+05 M/30-F	10 US 1- 3-20E+0	3 4/356
	MOVING SHOCK	STANDING SHOCK	DEELECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
0	9.4113E+01	1.8156E+02		Р	1.2339E+02	2.6473E+02	6.5833E+02
Ť				f .			
	2.4419E+01	3.1753E+01	4.7104E+01		3.1393E+01	4. 0638E+01	5.2754E+01
RHO	3.8539E+00	5.7124E+00	1.0646E+01	RHO'	3.9267E+00	6.4580E+00	1-1970E+01
н ,	2.4433E+01	3. 2019E+01	5.4000E+01	н	3.1686E+01	4.3248E+01	6.7908E+01
Α,	4.9309E+00	5.5181E+00	6.1560E+00	Ą	5.4775E+00	5.8876E+00	6.4069E+00
S	1.1849E+00	1.1860E+00	1.2041E+00	\$	1.2053E+00	1.2072E+00	1.2275E+00
2	1.0001E+00	1.0009E+00 .	1.0211E+00	Ζ',	1.0010E+00	1.0087E+00	1.0426E+00
GAME	9.9562E-01	9.5801E-01	7.8794E-01	GAME	9.5475E-01	8.4563E-01	7.4633E-01
U ·	6.4370E+00	4.3219E+00	3.6713E+00	U	7.4036E+00	4.4866E+00	3.6368E+00
	•			•			
SPECIES	s <del></del>	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E		0 (0115:01	2 2/205 22			0.4446.00	
	5-3144E-05	9.4811E-04		E	1.0152E-03	. 8-6414E-03	4.0839E-02
A .	. 9-9989E-01	9.9810E-01	9.5874E-01	Ą	9.9797E-01	9-8272E-01	9.1832E-01
A+,	5.3144E-05	9.4811E-04		. A+	1.0152E-03	8-6414E-03	4.0839E-02
A++ .	4.5054E-18	-1.1851E-13.	7. 0993E-09	_ A++	1.1457E-13	2.4857E-10	8.5392E-08
A+++	6.5260E-41	4.7340E-31	1.5026E-20	A+++	3.3712E-31	7.6678E-24	3.5894E-18
A+++ ·	5.3627E-75	7.4103F-58	1.7710E-38	A++++	2.7278E-58	1.21436-44	4.0923E-34
AV ,	0.	0.	2.8521E-62	· AV	0	3.5765E-72	2.4713E-55
AVI	0.	0.	0.	IVA	0.	0.	3.2459E-82
IIVA	0.	0.	0.	IIVA	0.	0.	0.
IIIVA	0.	0.	0.	IIIVA	0.	0.	0.
	,						
			•				
	•		·	,			
•		•	•				•
P1 =	1.00E+05 N/SQ-M	. US1= 3.00E+0	M/SEC	P1 = 1	.00E+05 N/SQ-	. US 1= 3.40E+0	3 M/SEC
1	MOVING CHOCK	STANDING SHOCK	BEELECTED SUDCE		MONTHS SHOCK	STANDING CHOCK	
				•	MOATING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ' .	1.0816E+02	2.1786E+02	5.8130E+02	P	1.4006E+02	3. 2528E+02	7.4834E+02
T	2.7854E+01	3.6256E+01	5.0073E+01	Ţ	3.4909E+01	4.4690E+01	5.5280E+01
RHO	3.8821E+00	5.9887E+00	1.1257E+01	RHO	4.0006E+00	7- 1537E+00	1.2833E+01
`H	2.7928E+01	3.7227E+01	6.0744E+Q1	· н	3.5732E+01	5.0147E+01	7.5657E+01
Α	5-2341E+00	5.7351E+00	6.2802E+00	A	5.6453E+00	6.0331E+00	6.5371E+00
S	1.1953E+00	1.1967E+00	1.2157E+00	S	1.2149E+00	1. 2177E+00	1.2395E+00
Z	1.0003E+00	1.0034E+00	1.0313E+00	ž	1.0029E+00	1.0175E+00	1.0549E+00
GAME	9.8328E-01	9.0414E-01	7.6381E-01	GAME	9.1032E-01	8.0050E-01	7.3281E-01
U ·	6.9143E+00	4.4622E+00	3.6620E+00	U	7.9170E+00	4.4083E+00	3.6060E+00
			•				•
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E- ·	2.7228E-04	3.3561E-03	3.0303E-02	E-	2.8871E-03	1.7163E-02	5. 2044E-02
Δ.	9-99468-01	9.9329E-01	9. 3939E-01	Ā,	9.9423E-01	9.6567E-01	8.9591E-01
Ã+	2.7228E-04	3.3561E-03	3.0303E-02	Ä+	2.8871E-03	1.7163E-02	5. 2043E-02
A++	1.2502E-15						
		9.2250E-12	2. 8354E-08	A++	4-1502E-12	2.8427E-09	2.1536E-07
A+++	1.8598F-35	5.8664E-27	3.1395E-19	A+++	8.0325E-28	1.5972E-21	2.8150E-17
A++++	3.2835E-66	2.2145E-50	4. 6559E-36	A++++	4.4083E-52	2.2285E-40	1.7981E-32
AV	م0.	2.4243E-81	1.9888E-58	AV	4-2360E-84	2.1391E-65	9.8857E-53
IVA	0.	0.	9.6684E-87	IVA	0.	0.	1.8283E-78
IIVA	0.	0.	∙0•	IIVA	`,0•	0.	0.
AVIII	′0-	0.	0-	IIIVA	Jo.	0.	0.

P1 =	1.00E+05 N/SO-	I. US1= 3.60E+0	3 M/SEC	P1 = 1	.00E+05 M/3Q-F	* 021= 4-00F+0	3 M/2FC
<u>.</u>				•		•	
	. MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK.	STANDING SHOCK	REFLECTED SHOCK
` o ` .	1.5839E+02	3.9814E+02	8.5796E+02		2.0024E+02	5. 9284E+02	1.1485E+03
T	3.8202E+01		5.7740E+01	T	4.3861E+01	5.4549E+01	6.2559E+01
RHD	4.1195E+00	8. 0165E+00	1.39126+01	RHO .	4.4797E+00	1.0288E+01	1.6751E+01
		8.01656+00					
н	4.0084E+01	5.768BE+01	8.4138E+01	H	4.9709E+01	7.4851E+01	1.0339E+02
A	5.7600E+00	6.1855E+00	6.6715E+00	<b>A</b>	5.9583E+00	6.5047E+00	6.9484E+00
S	1.2242E+00	1. 2283E+00	1.2519E+00	、 <b>S</b> .	1.2428E+00	1.2507E+00	1.2778E+00
Z	1.00656+00	1.0288E+00	1.0681E+00	Ž	1.0191E+00	1.0564E+00	1.0960E+00
GAME	8.6287E-01	7.7038E-01	7.2172E-01	GAM E	7.9422E-01	7.3424E-01	7.0416E-01
U.	" 8.4628E+00	'4.3366E+00	3.5771E+00	U	9.6417E+00	4.1880E+00	3.5311E+00
	• • •						
		******		*******	-	HOLE CO.CT 10NC	
SPECIE	5	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
/ E **	6.4267F-03	2.7988E-02	6.3741E-02	E-	1.8760E-02	5.3393E-02	8.7586E-02
Ā ' '	9.8715E-01		8.7252E-01	· Ă	9.6248E-01	8.9321E-01	8.2483E-01
A+	6.4267E-03	2.7988E-02	6.3740E-02		1.8760E-02	5.3393E-02	8. 7582E-02
A++	6.5725E-11			A++	2.7934E-09	2.0233E-07	1.8631E-06
A+++				A+++			
	3.2418E-25	8.2269E-20	1.7267E-16		1.1329E-21	2.13526-17	3.7874E-15
A++++	2.7769E-47	3.1923E-37		A++++	B.4369E-41	9.3797E-33	1.5889E-28
AV	1.9006E-76	2.2941E-60	2. 1744E-50	AV	3.3374E-66	3.1501E-53	2.0667E-46
AVI	0.	1.1681E-89		I VA	0.	3.37516-79	3.6985E-69
· IIVA	. 0,	0.	0.	3 I VA	0.	0.	0.
IIIVA	0.	0 •,	0.	IIIVA	• ,0•	0.	0.
			-		•		•
•					•		
•					•		
					•		
	•			•			
· Pl =	1.00E+05 N/SQ-M	. US1= 3.80E+0	3 M/SEC	P1 = 1	.00E+05 N/SQ-M	, US1= 4.20E+0	3 M/SEC .
	-					* +	
•	• • •			*			
		STANDING SHOCK					REFLECTED SHOCK
Ρ.	1.7847E+02	4.8756E+02	9.9082E+02	Р	2.2360E+02	7-1764E+02	1.3308E+03
Τ .	4.1190E+01	5. 1550E+01	6.0165E+01	· T .	4.6277E+01	5.7372E+01	6.49216+01
RHO	4.2817E+00	9.0763E+00	1.5222E+01	. RHO	4.7013E+00	1.1675E+01	1.8464E+01
Н -	4.4747E+01	6.5970E+01	9.3395E+01	н	5.4957E+01	8.4401E+01	1.1407E+02
Α	5.8583E+00	6.3452E+00	6.8092E+00	A	6.0639E+00	6.6631E+00	7.0881E+00
S	1.2335E+00		1.2646E+00	S	1.2524E+00	1.2627E+00	1.2916E+00
ž	1.0119E+00	1.0421E+00	1.0819E+00	ž	1.0278E+00	1.0714E+00	1.1102E+00
GAME	8.2337E-01	7. 4949E-01	7.1231E-01	GAME	7.73126-01	7. 2224E-01	6.9707E-01
U	9.0402E+00	4. 2489E+00	3.5520E+00	U	1.0259E+01	4. 1137E+00	3.5137E+00
U	7.04026700	4. 24075700	3.33202400	• .	1.02396401	4.11376400	3.71316400
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	1.1797E-02	4.0363E-02	7.5680E-02	€-	2.70256-02	6.6671E-02	9.9253E-02
A	9.7641E-01	. 9.1927E-01	8. 4864E-01	Ã	9.4595E-01	8.6666E-01	8.01508-01
Ä÷	1.17978-02	4.0363E-02	7.56788-02	Ã÷	2.7025E-02	6.6670E-02	9.9246E-02
A++				A++			
	5.4420E-10	6.7470E-08	9. 8412E-07		1.03236-08	5.0286E-07	3.3111E-06
A+++	3.1951E-23	1.7959E-18	8.7481E-16	A+++	1.9818E-20	1.6930E-16	1.4355E-14
A++++	1.2272E-43	9.42798-35	1.0432E-29	A++++	1.5662E-38	4.3783E-31	1.9050E-27
AV	1.0970E-70	1.9193E-56		AV	1.10568-62	1.4507E-50	1.1165E-44
AVI.	0.	5.3799E-84	6. 2123E-72	AV I	0.	2.5250E-75	1.3113E-66
AVII	0.	· 0.	• 0.	lIVA	0.	0.	0.
IIIVA	0	0.	0.	IIIVA	0.	0.	. 0.
	•						

	,		3 47356	FI - 1.00E+03 N/34-N/	031- 4.00E+03 H/3EC	
		STANDING SHOCK			STANDING SHOCK REFLECTED	
P	2.4846E+02	8.5974E+02	1.5382E+03		1.2060E+03 2.0289	
Τ .	4.8467E+01	6.0024E+01	6.7259E+01	T 5.2364E+01	6.5029E+01 7.1910	
RHO	4.9409E+00	1.3182E+01	2.0342E+01	RHO 5.4501E+00	1.6606E+01 2.4492	E+01
н	6.0479E+01	9.4469E+01	1.2539E+02	H 7.2316E+01	1.1631E+02 1.4978	E+02
Δ .	6.1729E+00	6.8168E+00	7.2282E+00	A 6.3950E+00	7.11516+00 7.5120	E+00
S	1.2622E+00	1.2753E+00	1.3059E+00	S 1.2826E+00	1.3021E+00 1.3360	E+00
Z	1.0375E+00	1.0866E+00	1.1243E+00	Z 1.0596E+00	1.11678+00 1.1520	
GAME	7.5775E-01	7.1248E-01	6.9092E-01	GAME 7.3707E-01	6.9710E-01 6.8121	
U .	1.0887E+01	4.0681E+00	3.4999E+00	U 1.2154E+01	3.9702E+00 3.4833	
-	,	•				,
SPECIES		- MOLE FRACTIONS		SPECIES	MOLE FRACTIONS	<u></u> _
E-	3.6187E-02	7.9703E-02	1.1055E-01	E- 5.6244E-02		2E-01
Α	9.2763E-01	8.4060E-01		A 8.8751E-01		8E-01
A+	. 3.6187E-02	7.9701E-02	1.1054E-01	A+ 5.6243E-02	1.0454E-01 1.318	
A++	2.9938E-08	· '1.0808E-06	5.5879E-06	A++ 1.5666E-07	3.7719E-06 1.418	36E 05 🗋
A+++ .	2.0791E-19	9.8051E-16	4.8729E-14	A+++ 8.1498E-18	1.7926E-14 4.387	0E-13
A++++	1.2241E-36	1.1548E~29	1.8636E-26	A++++ 1.0430E-33	2.6517E-27 1.133	4E-24
AV	1.4079E-59	2.7536E-48	4.3371E-43	AV 6.4823E-55		8E-40
AVI	1.2140E-88	5.4971E-72	2.8148E-64	AVI 7.9235E-82		3E-60
AVII	0.	0.	1. 3003E-92	AVII O.	0. 1.697	
AVILI	0.	0.	0.	AVIII O.	0.	
	••	, ••	••			
P1 = 1	1.00E+05 N/SQ-M	. US1= 4.60E+0	3 M/SEC	P1 = 1.00E+05 N/SQ-M	US 1= 5.00E+03 M/SEC	
			•		•	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	MOVING SHOCK	STANDING SHOCK REFLECTED	SHOCK
P						
P T	2.7475E+02	1.0216E+03':	1.7708E+03	P 3.3138E+02	1.4088E+03 2.313	DE+03
	2.7475E+02 ' 5.0484E+01	1.0216E+03': 6.2562E+01	1.7708E+03 6.9584E+01	P 3.3138E+02 T 5.4133E+01***	1.4088E+03 2.313 6.7420E+01 7.425	DE+03 BE+01
RHO	2.7475E+02 ' 5.0484E+01 5.1919E+00	1.0216E+03' 6.2562E+01 1.4821E+01	1.7708E+03 6.9584E+01 2.2358E+01	P 3.3138E+02 T 5.4133E+01*** RHO 5.7129E+00	1.4088E+03 2.3130 6.7420E+01 7.4250 1.8469E+01 2.6720	0E+03 9E+01 4E+01
RHO H	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01	1.0216E+03 6.2562E+01 1.4821E+01 1.0509E+02	1.7708E+03 6.9584E+01 2.2358E+01 1.3730E+02	P 3.3138E+02 T 5.4133E+01*** RHO 5.7129E+00 H 7.8623E+01	1.4088E+03 2.3130 6.7420E+01 7.4250 1.8469E+01 2.6720 1.2797E+02 1.6280	0E+03 9E+01 4E+01 4E+02
RHO H A	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00	1.0216E+03 6.2562E+01 1.4821E+01 1.0509E+02 6.9671E+00	1.7708E+03 6.9584E+01 2.2358E+01 1.3730E+02 7.3692E+00	P 3.3138E+02 T 5.4133E+01*15 RHO 5.7129E+00 H 7.8623E+01 A 6.5061E+00	1.4088E+03 2.313( 6.7420E+01 7.425; 1.8469E+01 2.672; 1.2797E+02 1.628; 7.2604E+00 7.658	DE+03 BE+01 \$E+01 \$E+02 BE+00
RHO H A S	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00	1.0216E+03 6.2562E+01 1.4821E+01 1.0509E+02 6.9671E+00 1.2884E+00	1.7708E+03 6.9584E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00	P 3-3138E+02 T 5-4133E+01*** RHO 5-7129E+00 H 7-8623E+01 A 6-5061E+00 S 1-2932E+00	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.628 7.2604E+00 7.658 1.3163E+00 1.351	DE+03 BE+01 NE+01 NE+02 BE+00 BE+00
RHO H A S Z	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00 1.0482E+00	1.0216E+03 6.2562E+01 1.4821E+01 1.0509E+02 6.9671E+00 1.2884E+00 1.1018E+00	1.7708E+03 6.9584E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00	P 3.3138E+02 T 5.4133E+01*17 RHO 5.7129E+00 H 7.8623E+01 A 6.5061E+00 S 1.2932E+00 Z 1.0716E+00	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.628 7.2604E+00 7.658 1.3163E+00 1.351 1.11314E+00 1.165	DE+03 BE+01 ME+01 ME+02 BE+00 BE+00 SE+00
RHO H A S Z Game	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00 1.0482E+00 7.4615E-01	1.0216E+03 6.2562E+01 1.4821E+01 1.0509E+02 6.9671E+00 1.2884E+00 1.1018E+00 7.0422E-01	1.7708E+03 6.9584E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01	P 3.3138E+02 T 5.4133E+01*** RHO 5.7129E+00 H 7.8623E+01 A 6.5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7.2973E-01	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.626 7.2604E+00 7.658 1.3163E+00 1.351 1.314E+00 1.165 6.9104E-01 6.776	DE+03 BE+01 NE+01 NE+02 SE+00 BE+00 SE+00 NE+00
RHO H A S Z	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00 1.0482E+00	1.0216E+03 6.2562E+01 1.4821E+01 1.0509E+02 6.9671E+00 1.2884E+00 1.1018E+00	1.7708E+03 6.9584E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00	P 3.3138E+02 T 5.4133E+01*17 RHO 5.7129E+00 H 7.8623E+01 A 6.5061E+00 S 1.2932E+00 Z 1.0716E+00	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.628 7.2604E+00 7.658 1.3163E+00 1.351 1.11314E+00 1.165	DE+03 BE+01 NE+01 NE+02 SE+00 BE+00 SE+00 NE+00
RHO H A S Z GAME U	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2637E+00 1.2722E+00 1.0482E+00 7.4615E-01 1.1519E+01	1.0216E+03 6.2562E+01 1.4821E+01 1.0509E+02 6.9671E+00 1.2884E+00 1.1018E+00 7.0422E-01 4.0264E+00	1.7708E+03 6.958E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00	P 3.3138E+02 T 5.4133E+01*** RHO 5.7129E+00 H 7.8623E+01 A 6.5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7.2973E-01 U 1.2790E+01	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.628 7.2604E+00 7.658 1.3163E+00 1.351 1.1314E+00 6.776 3.9431E+00 3.481	0E+03 9E+01 4E+01 4E+02 3E+00 8E+00 5E+00 4E-01 1E+00
RHO H A S Z Game	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2637E+00 1.2722E+00 1.0482E+00 7.4615E-01 1.1519E+01	1.0216E+03 6.2562E+01 1.4821E+01 1.0509E+02 6.9671E+00 1.2884E+00 1.1018E+00 7.0422E-01	1.7708E+03 6.958E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00	P 3.3138E+02 T 5.4133E+01*1* RHO 5.7129E+00 H 7.8623E+01 A 6.5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7.2973E-01 U 1.2790E+01	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.628 7.2604E+00 7.658 1.3163E+00 1.351 1.314E+00 1.165 6.9104E-01 6.776 3.9431E+00 3.481	0E+03 9E+01 4E+01 4E+02 3E+00 8E+00 5E+00 4E-01 1E+00
RHO H A S Z GAME U	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2637E+00 1.2722E+00 1.0482E+00 7.4615E-01 1.1519E+01	1.0216E+03 6.2562E+01 1.4821E+01 1.0509E+02 6.9671E+00 1.2884E+00 1.1018E+00 7.0422E-01 4.0264E+00	1.7708E+03 6.958E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00	P 3.3138E+02 T 5.4133E+01*17 RHO 5.7129E+00 H 7.8623E+01 A 6.5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7.2973E-01 U 1.2790E+01	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.628 7.2604E+00 7.658 1.3163E+00 1.351 1.314E+00 1.165 6.9104E-01 6.776 3.9431E+00 3.481	0E+03 9E+01 4E+01 4E+02 3E+00 8E+00 5E+00 4E-01 1E+00
RHO H A S Z GAME U	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00 1.0482E+00 7.4615E-01 1.1519E+01	1.0216E+03 6.2562E+01 1.482IE+01 1.0509E+02 6.967IE+00 1.2884E+00 7.0422E-01 4.0264E+00	1.7708E+03 6.958E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00	P 3-3138E+02 T 5-4133E+01*1* RHO 5-7129E+00 H 7-8623E+01 A 6-5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7-2973E-01 U 1.2790E+01  SPECIES	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.628 7.2604E+00 1.355 1.313E+00 1.355 1.1314E+00 1.165 6.9104E-01 6.776 3.9431E+00 3.481	0E+03 9E+01 4E+01 4E+02 3E+00 8E+00 5E+00 4E-01 1E+00
RHO H A S Z GAME U SPECIES	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00 7.4615E-01 1.1519E+01 5	1. 0216E+03' 6. 2562E+01 1. 4821E+01 1. 0509E+02' 6. 9671E+00 1. 2884E+00 1. 1018E+00 7. 0422E-01 4. 0264E+00	1.7708E+03 6.9584E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00	P 3-3138E+02 T 5-4133E+01*1* RHO 5-7129E+00 H 7-8623E+01 A 6-5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7-2973E-01 U 1.2790E+01  SPECIES	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.628 7.2604E+00 7.658 1.3163E+00 1.351 1.1314E+00 1.165 6.9104E-01 6.776 3.9431E+00 3.481 MOLE FRACTIONS	0E+03 9E+01 4E+01 4E+02 3E+00 8E+00 5E+00 4E-01 1E+00  02E-01 98E-01
RHO H A S Z GAME U SPECIES	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00 7.4615E-01 1.1519E+01 5 	1.0216E+03' 6.2562E+01 1.482LE+01 1.0509E+02' 6.9671E+00 1.2884E+00 1.1018E+00 7.0422E-01 4.0264E+00  - MOLE FRACTIONS 9.2354E-02 8.1529E-01 9.2350E-02	1.7708F+03 6.958FE+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00	P 3-3138E+02 T 5-4133E+01*** RHO 5-7129E+00 H 7-8623E+01 A 6-5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7-2973E+01 U 1.2790E+01  SPECIES	1.4088E+03 2.313i 6.7420E+01 7.425i 1.8469E+01 2.672i 1.2797E+02 1.626i 1.3163E+00 7.656i 1.3163E+00 1.351i 1.1314E+00 6.776i 3.9431E+00 3.481  MOLE FRACTIONS  1.1616E-01 1.42i 1.1615E-01 1.42i 1.1615E-01 1.42i	DE+03 BE+01 HE+01 HE+02 BE+00 BE+00 HE-01 DEE-01 DEE-01 DEE-01
RHO H A S Z GAME U SPECIES E- A A+ A+	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00 7.4615E-01 1.1519E+01 8	1.0216E+03' 6.2562E+01 1.4821E+01 1.0509E+02' 6.9671E+00 1.2884E+00 7.0422E-01 4.0264E+00  - MOLE FRACTIONS 9.2354E-02 8.1529E-01 9.2350E-02 2.0964E-06	1.7708E+03 6.958E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00	P 3-3138E+02 T 5-4133E+01*1* RHO 5-7129E+00 H 7-8623E+01 A 6-5061E+00 S 1-2932E+00 Z 1.0716E+00 GAME 7-2973E-01 U 1-2790E+01  SPECIES E- 6-6779E-02 A 8-6644E-01*	1.4088E+03 2.313i 6.7420E+01 7.425i 1.8469E+01 2.672i 1.2797E+02 1.628i 7.2604E+00 7.658i 1.3163E+00 1.355i 1.1314E+00 1.165i 6.9104E-01 6.776 3.9431E+00 3.481  MOLE FRACTIONS 1.1616E-01 1.42i 2f.67.6769E-01 7.15i 1.1615E-01 1.41i 6.3772E-06 2.17i	0E+03 9E+01 4E+01 4E+02 3E+00 8E+00 4E-01 1E+00  02E-01 98E-01 98E-01
RHO H A S Z GAME U SPECIES E- A A+ A++ A++	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00 1.0482E+00 7.4615E-01 1.1519E+01 5	1.0216E+03 6.2562E+01 1.482LE+01 1.0509E+02 6.967LE+00 1.2884E+00 1.1018E+00 7.0422E-01 4.0264E+00  - MOLE FRACTIONS 9.2354E-02 8.1529E-01 9.2350E-02 2.0964E-06 4.547LE-15	1.7708E+03 6.9584E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00 	P 3.3138E+02 T 5.4133E+01*17 RHO 5.7129E+00 H 7.8623E+01 A 6.5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7.2973E-01 U 1.2790E+01  SPECIES  E- 6.6779E-02 A 8.6644E-01 A+ 6.6776E-02 A+ 3.0488E-07 A+++ 3.5922E-17	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.628 7.2604E+00 1.351 1.3163E+00 1.165 6.9104E-01 3.481 	0E+03 9E+01 4E+01 4E+02 3E+00 9E+00 9E-01 1E+00  02E-01 98E-01 99E-01 97E-05 51E-12
RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	2.7475E+02 5.0484E+01 5.1919E+00 6.267E+01 6.2637E+00 1.2722E+00 1.0482E+00 7.4615E-01 1.1519E+01 5 	1. 0216E+03' 6. 2562E+01 1. 4821E+01 1. 0509E+02' 6. 9671E+00 1. 2884E+00 1. 1018E+00 7. 0422E-01 4. 0264E+00  - MOLE FRACTIONS 9. 2354E-02 8. 1529E-01 9. 2350E-02 2. 0964E-06 4. 5471E-15 2. 0294E-28	1.7708E+03 6.958E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00  1.2144E-01 7.5712E-01 1.2142E-01 9.0489E-06 1.5141E-13 1.5503E-25	P 3-3138E+02 T 5-4133E+01*1* RHO 5-7129E+00 H 7-8623E+01 A 6-5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7-2973E-01 U 1.2790E+01  SPECIES	1.4088E+03 2.313i 6.7420E+01 7.425i 1.8469E+01 2.672i 1.2797E+02 1.628i 7.2604E+00 7.658i 1.3163E+00 1.351i 1.1314E+00 6.776 3.9431E+00 3.481  MOLE FRACTIONS  1.1616E-01 1.42i 7.6769E-01 7.15 1.1615E-01 1.41i 6.3772E-06 2.17i 6.3772E-06 7.50i	DE+03 BE+01 4E+01 4E+02 3E+00 BE+00 5E+00 4E-01 1E+00  02E-01 98E-01 98E-01 07E-05 51E-12 55E-24
RHO H A S Z GAME U SPECIES E- A A+ A++ A++ A++	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00 7.4615E-01 1.1519E+01 8	1.0216E+03' 6.2562E+01 1.482IE+01 1.0509E+02' 6.967IE+00 1.2884E+00 7.0422E-01 4.0264E+00  - MOLE FRACTIONS 9.2354E-02 8.1529E-01 9.2350E-02 2.0964E-06 4.547IE-15 2.0294E-28 2.7723E-46	1.7708E+03 6.9584E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E+01 3.4900E+00  1.2144E-01 7.5712E-01 1.2142E-01 9.0489E-06 1.5141E-13 1.5503E-25 1.3058E-41	P 3.3138E+02 T 5.4133E+01*1* RHO 5.7129E+00 H 7.8623E+01 A 6.5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7.2973E-01 U 1.2790E+01  SPECIES  E- 6.6779E-02 A 8.6644E-01 A+ 6.6778E-02 A+ 3.0486E-07 A++ 1.5745E-32 AV 4.5421E-53	1.4088E+03 2.313 6.7420E+01 7.425 1.8469E+01 2.672 1.2797E+02 1.628 7.2604E+00 7.658 1.3163E+00 1.351 1.1314E+00 1.165 6.9104E-01 6.776 3.9431E+00 3.481  MOLE FRACTIONS 1.1616E-01 1.42 2.6706E-01 7.15 1.1615E-01 1.41 6.3772E-06 2.17 6.1554E-14 1.20 2.6700E-26 7.50 7.2177E-43 6.68	0E+03 9E+01 4E+01 4E+02 3E+00 8E+00 8E+00 4E-01 1E+00  02E-01 98E-01 98E-01 07E-05 61E-12 55E-24
RHO H A S Z GAME U SPECIES E- A A+ A+++ A+++ A+++	2.7475E+02 5.0484E+01 5.1919E+00 6.6287E+01 6.2837E+00 1.2722E+00 1.0482E+00 7.4615E-01 1.1519E+01 3.5996E-02 9.0801E-01 4.5995E-02 7.3009E-08 1.4919E-18 4.5564E-35 4.3676E-57 5.1435E-85	1.0216E+03' 6.2562E+01 1.4821E+01 1.0509E+02' 6.9671E+00 1.2884E+00 1.1018E+00 7.0422E-01 4.0264E+00  - MOLE FRACTIONS 9.2354E-02 8.1529E-01 9.2350E-02 2.0964E-06 4.541E-15 2.0294E-28 2.7723E-46 4.9888E-69	1.7708F+03 6.958F+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00	P 3-3138E+02 T 5-4133E+01*** RHO 5-7129E+00 H 7-8623E+01 A 6-5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7-2973E-01 U 1.2790E+01  SPECIES  E- 6.6779E-02 A 8.6644E-01 A+ 6.6778E-02 A+ 3.0486E-07 A+++ 3.5922E-17 A+++ 1.5745E-32 AV 4.5421E-53 AVI 2.8498E-79	1.4088E+03 2.313i 6.7420E+01 7.425i 1.8469E+01 2.672i 1.2797E+02 1.626i 7.2604E+00 7.656i 1.3163E+00 1.35ii 1.314E+00 6.776i 3.9431E+00 3.481	DE+03 DE+01 DE+01 DE+02 DE+00 DE+00 DE+00 DE+00 DE+00 DE+00 DE+01 DE+00 DE-01 DE-01 DE-01 DE-01 DE-01 DE-01 DE-01 DE-01 DE-01 DE-05
RHO H A S Z GAME U SPECIES E- A A+ A++ A++ A++	2.7475E+02 5.0484E+01 5.1919E+00 6.6267E+01 6.2837E+00 1.2722E+00 7.4615E-01 1.1519E+01 8	1.0216E+03' 6.2562E+01 1.482IE+01 1.0509E+02' 6.967IE+00 1.2884E+00 7.0422E-01 4.0264E+00  - MOLE FRACTIONS 9.2354E-02 8.1529E-01 9.2350E-02 2.0964E-06 4.547IE-15 2.0294E-28 2.7723E-46	1.7708E+03 6.9584E+01 2.2358E+01 1.3730E+02 7.3692E+00 1.3207E+00 1.1382E+00 6.8564E-01 3.4900E+00  1.2144E-01 7.5712E-01 1.2142E-01 9.0489E-06 1.5141E-13 1.5503E-25 1.3058E-41	P 3.3138E+02 T 5.4133E+01*1* RHO 5.7129E+00 H 7.8623E+01 A 6.5061E+00 S 1.2932E+00 Z 1.0716E+00 GAME 7.2973E-01 U 1.2790E+01  SPECIES  E- 6.6779E-02 A 8.6644E-01 A+ 6.6778E-02 A+ 3.0486E-07 A++ 1.5745E-32 AV 4.5421E-53	1.4088E+03 2.313i 6.7420E+01 7.425i 1.8469E+01 2.672i 1.2797E+02 1.626i 7.2604E+00 7.656i 1.3163E+00 1.35ii 1.314E+00 6.776i 3.9431E+00 3.481	0E+03 9E+01 4E+01 4E+02 3E+00 8E+00 8E+00 4E-01 1E+00  02E-01 98E-01 98E-01 07E-05 61E-12 55E-24

### $\rm p_1$ = 100 kN/ $\rm m^2$

P1 = 1	.00E+05 N/SQ-M	. US 1= 5.20E+0	3 H/SEC	P1 = 1	L.00E+05 N/SQ-	4, USI= 5.60E+0	3 M/SEC
	MUNING SHUCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.6168E+02	1.6333E+03	2.6237E+03	P	4.2611E+02	2.1503E+03	3.3251E+03
T	5.5813E+01	6.9767E+01	7.6649E+01	Ŧ	5.8974E+01	7.4481E+01	8.1635E+01
RHO	5.9780E+00	2.0433E+01	2.9034E+01	RHU	6.5093E+00	2. 4595E+01	3.3782E+01
н	8.5184E+01	1.4015F+02	1.7645E+02	н	9.9071E+01	1.6603E+02	2.0524E+02
A'	6.6166E+00	7.4045E+00	7.8099E+00	A	6-8360E+00	7-7002E+00	8.1363E+00
S	1.3042E+00	1.3310E+00	1.3681E+00	S	1.3270E+00	1.3621E+00	1.40176+00
Z	1.0840E+00	1.1457E+00	1.1790E+00	Ž	1.1100E+00	1.17386+00	1.2057E+00
GAME	7.2361E-01	6.8591E-01	6.7497E-01	GAME	7.1387E-01	6.7819E-01	6.7257E-01
U	1.3426E+01	3.9200F+00	3.4838E+00	U	1.4694E+01	3.8784E+00	3.4908E+00
	4						
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	7.7488E-02	1.2718E-01	1.5180E-01	E-	9.91136-02	1.4808E-01	1:7061E-01
A	8.4503E-01	7.4564E-01	6.9642E-01	<b>A</b> -	8.0178E-01	7.03868-01	6.5885E-01
A+	7.7487E-02	1.2716E-01	1.5174E-01	Δ+ .	9.9110E-02	1.4803E-01	1.70476-01
A++ '	5.5017E-07	· 1.0285F-05	3.2639E-05	A++	1.5141E-06	2.4572E-05	7.1403E-05
A+++	1.3501E-16	1.9058E-13	3. 1929E-12	A+++	1.3243E-15	1.5144E-12	2.0849E-11
A++++	1.8177E-31	2.2178E-25	4.6224E-23	A++++	1.2310E-29	1.0736E-23	1.5234E-21
· AV	2.3168E-51	2.1779E-41	1.2369E-37	AV .	1.9567E+48	1.1158E-38	3.3403E-35
AVI	1.0928F-76	8.4479E-62	2.9710E-56	AVI '	2.2402E-72	8.1700E-58	1.0855E-52
AVII	0.	` 0 •	5. 3090E-81	1 IVA	0.	2.7468E-83	7.0447E-76
IIIVA	· 0•	0.	0.	IIIVA	0.	0.	. 0∙
			•				•
			•				
			•				
			:				
P1 = 1.	00E+05 N/SQ-M	. US1= 5.40E+03	3 M/SEC	P1 = 1	00E+05 N/SQ-#	US 1= 5.80E+0	3 M/SEC
P1 = 1.	.00E+05 N/SQ-M	, US1= 5.40E+03	3 M/SEC	P1 = 1	00E+05 N/SQ-M	US1= 5.80E+0	3 M/SEC
P1 = 1.				P1 = 1			
P1 = 1.		. US1= 5.40E+03 STANDING SHOCK 1.8798E+03		P1 = 1	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK				
P	MOVING SHOCK 3.9326E+02	STANDING SHOCK 1.8798E+03	REFLECTED SHOCK 2.9586E+03	P	MOVING SHOCK 4.6022E+02 6.0479E+01	STANDING SHOCK 2.4421E+03 7.6867E+01	REFLECTED SHOCK 3.7203E+03 8.4325E+01
P T	MOVING SHOCK 3.9326E+02 5.7422E+01	STANDING SHOCK 1.8798E+03 7.2120E+01	REFLECTED SHOCK 2-9586E+03 7-9075E+01	Р Т	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00	STANDING SHOCK 2.4421E+03 7.6867E+01 2.6753E+01	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01
P T RHO	MOVING SHOCK 3.9326E+02 5.7422E+01 6.2439E+00	STAND ING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01	Р Т <b>Я</b> НО	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02	STANDING SHOCK 2.4421E+03 7.6867E+01 2.6753E+01 1.7970E+02	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01 2.2063E+02
P T RHO H	MOVING SHOCK 3.9326E+02 5.7422E+01 6.2439E+00 9.2001E+01	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02	Р Т RHO Н	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00	STANDING SHOCK 2.4421E+03 7.6867E+01 2.6753E+01	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01
P T RHO H	MOVING SHOCK 3.9326E+02 5.7422E+01 6.2439E+00 9.2001E+01 6.7266E+00	STAND ING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00	P T RHO H A	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9452E+00 1.3388E+00	STANDING SHOCK 2.4421E+03 7.6867E+01 2.6753E+01 1.7970E+02 7.8536E+00	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01 2.2063E+02 8.3194E+00 1.4193E+00
P T RHO H A S	MOVING SHOCK 3.9326E+02 5.7422E+01 6.2439E+00 9.2001E+01 6.7266E+00 1.3154E+00	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3464E+00	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00	P T RHO H A S	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9452E+00 1.3388E+00 1.1235E+00	STANDING SHOCK 2.4421E+03 7.6867E+01 2.6753E+01 1.7970E+02 7.8536E+00 1.3783E+00	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01 2.2063E+02 8.3194E+00 1.4193E+00 1.2194E+00
P T RHO H A S	MOVING SHOCK 3.9326E+02 5.7422E+01 6.2439E+00 9.2001E+01 6.7266E+00 1.3154E+00	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3464E+00 1.1599E+00	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00	P T RHO H A S Z	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9452E+00 1.3388E+00	STANDING SHOCK 2.4421E+03 7.6867F+01 2.6753E+01 1.7970E+02 7.8536F+00 1.3783E+00 1.1875E+00	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01 2.2063E+02 8.3194E+00 1.4193E+00
P T RHO H A S Z GAME	MOVING SHOCK 3-9326E+02 5-7422E+01 6-2439E+00 9-2001E+01 6-7266E+00 1-3154E+00 1-0968E+00	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3466E+00 1.1599E+00 6.8161E-01	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01	P T RHO H A S Z Game	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9452E+00 1.3388E+00 1.1235E+00 7.0988E-01	STANDING SHOCK 2.4421E+03 7.6867F+01 2.6753E+01 1.7970E+02 7.8536F+00 1.3783E+00 1.1875E+00 6.7569E-01	REFLECTED SHOCK 3.72036+03 8.43256+01 3.61806+01 2.20636+02 8.31346+00 1.41936+00 1.21946+00 6.73086-01
P T RHO H A S Z GAME	MOVING SHOCK 3-9326E+02 5-7422E+01 6-2439E+00 9-2001E+01 6-7266E+00 1-3154E+00 1-0968E+00 7-1840E-01 1-4061E+01	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3466E+00 1.1599E+00 6.8161E-01	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00	P T RHO H A S Z Game	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9452E+00 1.3388E+00 1.1235E+00 7.0988E-01 1.5326E+01	STANDING SHOCK 2.4421E+03 7.6867F+01 2.6753E+01 1.7970E+02 7.8536F+00 1.3783E+00 1.1875E+00 6.7569E-01	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01 2.2063E+02 8.3194E+00 1.4193E+00 1.2194E+00 6.7308E-01 3.5174E+00
P T RHO H A S Z GAME U	MOVING SHOCK 3-9326E+02 5-7422E+01 6-2439E+00 9-2001E+01 6-7266E+00 1-3154E+00 1-096BE+00 1-4061E+01	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3464E+00 1.1599E+00 6.8161E-01 3.9017E+00	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00	P T RHO H A S Z GAME U	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9452E+00 1.3388E+00 1.1235E+00 7.0988E-01 1.5326E+01	STANDING SHOCK 2.4421E+03 7.6867F+01 2.6753E+01 1.7970E+02 7.8536F+00 1.3783E+00 1.1875E+00 6.7569E-01 3.8706E+00	REFLECTED SHOCK 3.72036+03 8.43256+01 3.61806+01 2.20636+02 8.31946+00 1.41936+00 1.21946+00 6.73086-01 3.51746+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3-9326E+02 5-7422E+01 6-2439E+00 9-2001E+01 6-7266E+00 1-3154E+00 1-0968E+00 7-1840E-01 1-4061E+01	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3464E+00 1.1599E+00 6.8161E-01 3.9017E+00  - MOLE FRACTIONS 1.3798E-01	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00	P T RHO H A S Z Game U SPECIES	MOVING SHOCK 4.602ZE+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9452E+00 1.3388E+00 1.1235E+00 7.0988E-01 1.5326E+01	STANDING SHOCK 2.4421E+03 7.6867F+01 2.6753E+01 1.7970E+02 7.6536F+00 1.3783E+00 1.1875E+00 6.7569E-01 3.8706E+00  - MOLE FRACTIONS 1.5793E-01	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01 2.2063E+02 8.3194E+00 1.4193E+00 1.2194E+00 4.730BE-01 3.5174E+00
P T RHO H A S Z GAME U	MOVING SHOCK 3-9326E+02 5-7422E+01 6-2439E+00 9-2001E+01 6-726EE+00 1-3154E+00 1-0968E+00 7-1840E-01 1-4061E+01 8-8286E-02 8-2343E-01	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3464E+00 1.1599E+00 6.8161E-01 3.9017E+00  - MOLE FRACTIONS 1.3798E-01 7.2425E-01	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00	P T RHO H A S Z GAME U  SPECIES E- A	MOVING SHOCK 4-6022E+02 6-0479E+01 6-7731E+00 1-0639E+02 6-9452E+00 1-1235E+00 7-0988E-01 1-5326E+01 1-0992E-01 7-8016E-01	STANDING SHOCK 2.4421E+03 7.6867F+01 2.6753E+01 1.7970E+02 7.8536F+00 1.3783E+00 1.1875E+00 6.7569E-01 3.8706E+00	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01 2.2063E+02 8.3194E+00 1.4193E+00 1.2194E+00 6.7308E-01 3.5174E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 3-9326E+02 5-74-2E+01 6-2439E+00 9-2001E+01 6-72-66E+00 1-3154E+00 1-096BE+00 7-1840E-01 1-4061E+01	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3466E+00 1.1599E+00 6.8161E-01 3.9017E+00  - MDLE FRACTIONS 1.3798E-01 7.2425E-01 1.3785E-01	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9452E+00 1.3388E+00 1.1235E+01 1.5326E+01 1.0992E-01 7.0992E-01 7.8016E-01 1.0992E-01	STANDING SHOCK 2.4421E+03 7.6867E+01 12.6753E+01 1.7970E+02 7.8536E+00 1.3783E+00 1.1875E+00 6.7569E-01 3.8706E+00  - MOLE FRACTIONS 1.5793E-01 6.8418E-01 1.5785E-01	REFLECTED SHOCK 3.7203f+03 8.4325f+01 3.6180f+01 2.2063f+02 8.3134f+00 1.4193f+00 1.2194f+00 6.7308f-01 3.5174f+00
P T RHO H A S Z GAME U SPECIES E-A A+A++	MOVING SHOCK 3-9326E+02 5-7422E+01 6-2439E+00 9-2001E+01 6-7266E+00 1.3154E+00 1.0968E+00 7.1840E-01 1.4061E+01	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3464E+00 1.1599E+00 6.8161E-01 3.9017E+00  - MOLE FRACTIONS 1.3798E-01 7.2425E-01 1.37785E-01 1.6115E-05	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 4-602ZE+02 6-0479E+01 6-7731E+00 1-0639E+02 6-9452E+00 1-1235E+00 7-098E-01 1-5326E+01 1-0992E-01 7-8016E-01 1-0992E-01 2-3571E-06	STANDING SHOCK 2.4421F+03 7.6867F+01 2.6753E+01 1.7970E+02 7.8536E+00 1.3783E+00 6.7569E-01 3.8706E+00  - MOLE FRACTIONS 1.5793E-01 6.8418E-01 1.5785E-01 3.6763E-01	REFLECTED SHOCK 3.7203F+03 8.4325F+01 3.6180F+01 2.2063F+02 8.3194E+00 1.4193E+00 6.7308E-01 3.5174E+00 1.7995E-01 6.4020E-01 1.7974E-01 1.0554E-04
P T RHO H A S Z GAME U SPECIES E-A A+	MOVING SHOCK 3-9326E+02 5-7422E+01 6-2439E+00 9-2001E+01 6-7266E+00 1-0968E+00 1-0968E+00 1-1840E-01 1-4061E+01 8-8286E-02 8-2343E-01 8-8246E-02 9-3499E-07 4-4561E-16	STAND ING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3464E+00 1.1599E+00 6.8161E-01 3.9017E+00  - MOLE FRACTIONS 1.3798E-01 1.3798E-01 1.31785E-01 1.6115E-05 5.5344E-13	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00  1.6120E-01 6.7765E-01 1.6110E-01 4.8259E-05 8.1451E-12	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A++	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9452E+00 1.1235E+00 7.0988E-01 1.5326E+01 1.0992E-01 7.8016E-01 1.0992E-01 2.3571E-06 3.6130E-15	STANDING SHOCK 2.4421E+03 7.6867F+01 2.6753E+01 1.7970E+02 7.8536F+00 1.1875E+00 6.7569E-01 3.8706E+00  - MOLE FRACTIONS 1.5793E-01 6.8418E-01 1.5795E-01 3.6763E-05 3.9720F-12	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01 2.2063E+02 8.3134E+00 1.4193E+00 6.7308E-01 3.5174E+00 1.7995E-01 6.4020E-01 1.7974E-01 1.0554E-04 5.3324E-11
P T RHO H A S Z GAME U SPECIES E-A A+A+++	MOVING SHOCK 3-9326E+02 5-7422E+01 6-2439E+00 9-2001E+01 6-7266E+00 1-3154E+00 1-0968E+00 1-4061E+01  8-8286E-02 8-2345E-01 8-8244E-02 9-3499E-07 4-4561E-16 1-6498E-30	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3464E+00 1.1599E+00 6.8161E-01 3.9017E+00  - MOLE FRACTIONS 1.3798E-01 7.2425E-01 1.3795E-01 1.3795E-01 1.6115E-05 5.5344E-13 1.6321E-24	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00	P T RHO H A S GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9952E+00 1.235E+00 1.235E+01 1.5326E+01 1.0992E-01 7.8016E-01 1.0992E-01 2.3571E-06 3.6130E-15 7.8376E-29	STANDING SHOCK 2.4421E+03 7.6867E+01 2.6753E+01 1.7970E+02 7.8536E+00 1.3783E+00 6.7569E-01 3.8706E+00  MOLE FRACTIONS 1.5793E-01 6.8418E-01 1.5763E-05 3.9720F-12 6.5086E-23	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01 2.2063E+02 8.3134E+00 1.4193E+00 1.2194E+00 4.7308E-01 3.5174E+00 1.7995E-01 6.4020E-01 1.7974E-01 1.0554E-04 5.3324E-11 8.7176E-21
P T RHO H A S Z GAME U SPECIES E-A A++++ A++++ A++++ AV	MOVING SHOCK 3-9326E+02 5-7422E+01 6-2439E+00 9-2001E+01 6-7266E+00 1.3154E+00 1.3154E+00 1.4061E+01 1.4061E+01 8.8286E-02 8.2343E-01 8.8286E-02 9.3499E-07 4.4561E-16 1.6498E-30 7.9245E-50	STAND ING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.1599E+00 6.8161E-01 3.9017E+00  MOLE FRACTIONS 1.3798E-01 7.2425E-01 1.37785F-01 1.6115E-05 5.5344E-13 1.6321E-24 5.4021E-40	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00  1.6120E-01 6.7765E-01 1.6110E-01 4.8259E-05 8.1451E-12 2.6492E-22 2.0289E-36	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A++ A+++	MOVING SHOCK 4-602ZE+02 6-0479E+01 6-7731E+00 1-0639E+02 6-945ZE+00 1-1235E+00 7-098E-01 1-5326E+01 1-099ZE-01 7-8016E-01 1-099ZE-01 2-3571E-06 3-6130E-15 7-8376E-29 3-7279E-47	STANDING SHOCK 2.4421F+03 7.6867F+01 2.6753E+01 1.7970E+02 7.8536F+00 1.3783E+00 6.7569E-01 3.8706E+00  - MOLE FRACTIONS 1.5793E-01 6.8418E-01 1.5795E-01 3.6763E-05 3.9720F-12 6.5086E-23 2.0160E-37	REFLECTED SHOCK 3.7203F+03 8.4325F+01 3.6180F+01 2.2063F+02 8.3194F+00 1.4193F+00 1.2194F+00 6.7308F-01 3.5174F+00
P T RHO H A S Z GAME U SPECIES E-A A++++ A++++ AVI	MOVING SHOCK 3.9326E+02 5.74.2E+01 6.2439E+00 9.2001E+01 6.7266E+00 1.3154E+00 1.096BE+00 1.44061E+01  8.8286E-02 8.2343E-01 8.8284E-02 9.3498E-07 4.4561E-16 1.6498E-30 7.9245E-50	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3464E+00 1.1599E+00 6.8161E-01 3.9017E+00  - MOLE FRACTIONS 1.3798E-01 7.2425E-01 1.3795E-01 1.3795E-01 1.6115E-05 5.5344E-13 1.6321E-24	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00  1.6120E-01 6.7765E-01 1.6110E-01 4.8259E-05 8.1451E-12 2.6492E-22 2.0289E-36 1.7894E-54	P T RHO H A S GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 4.6022E+02 6.0479E+01 6.7731E+00 1.0639E+02 6.9452E+00 1.3388E+00 1.1235E+01 1.5326E+01 1.6092E-01 1.6992E-01 2.3571E-06 3.6130E-15 7.8376E-29 3.7279E-47 1.6363E-70	STANDING SHOCK 2.4421E+03 7.6867F+01 2.6753E+01 1.7970E+02 7.8536F+00 1.3783E+00 1.1875E+00 6.7569E-01 3.8706E+00  - MOLE FRACTIONS 1.5793E-01 6.8418E-01 3.6763E-05 3.9720F-12 6.5086E-23 2.0160E-37 5.7369E-56	REFLECTED SHOCK 3.7203E+03 8.4325E+01 3.6180E+01 2.2063E+02 8.3134E+00 1.4193E+00 1.2194E+00 4.7308E-01 3.5174E+00 1.7995E-01 6.4020E-01 1.7974E-01 1.0554E-04 5.3324E-11 8.7176E-21
P T RHO H A S Z GAME U SPECIES E-A A++++ A++++ A++++ AV	MOVING SHOCK 3-9326E+02 5-7422E+01 6-2439E+00 9-2001E+01 6-7266E+00 1.3154E+00 1.3154E+00 1.4061E+01 1.4061E+01 8.8286E-02 8.2343E-01 8.8286E-02 9.3499E-07 4.4561E-16 1.6498E-30 7.9245E-50	STANDING SHOCK 1.8798E+03 7.2120E+01 2.2471E+01 1.5283E+02 7.5512E+00 1.3466E+00 1.1599E+00 6.8161E-01 3.9017E+00  - MOLE FRACTIONS 1.3798E-01 7.2425E-01 1.3785F-01 1.6115E-05 5.5346E-13 1.6321E-24 5.4021E-40 9.5298E-60	REFLECTED SHOCK 2.9586E+03 7.9075E+01 3.1384E+01 1.9044E+02 7.9667E+00 1.3845E+00 1.1922E+00 6.7326E-01 3.4715E+00  1.6120E-01 6.7765E-01 1.6110E-01 4.8259E-05 8.1451E-12 2.6492E-22 2.0289E-36	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A++ A+++	MOVING SHOCK 4-602ZE+02 6-0479E+01 6-7731E+00 1-0639E+02 6-945ZE+00 1-1235E+00 7-098E-01 1-5326E+01 1-099ZE-01 7-8016E-01 1-099ZE-01 2-3571E-06 3-6130E-15 7-8376E-29 3-7279E-47	STANDING SHOCK 2.4421F+03 7.6867F+01 2.6753E+01 1.7970E+02 7.8536F+00 1.3783E+00 6.7569E-01 3.8706E+00  - MOLE FRACTIONS 1.5793E-01 6.8418E-01 1.5795E-01 3.6763E-05 3.9720F-12 6.5086E-23 2.0160E-37	REFLECTED SHOCK 3.7203f+03 8.4325f+01 3.6180f+01 2.2063f+02 8.3134f+00 1.4193f+00 1.2194f+00 6.7308f-01 3.5174f+00

P1 = 1	L-90E+05 N/SQ-M ₁	US1= 6.00E+0	3 M/SEC	P1 = 1.	.00E+05 N/SQ-M	. US1= 6.40E+0	3 M/SEC
		,					•
	MOUTHE SHOCK	STANDING SUCCE	REFLECTED SHOCK		HO 511054		
Р	4.9599E+02	2.7597F+03	· 4.1535E+03	Р	MOVING SHOCK 5.7035E+02	3.4514E+03	REFLECTED SHOCK 5.0940E+03
Ť	6.1954E+01	7.9330E+01	8.7220E+01	Ť	6.4813E+01	8- 4470E+01	9.3622E+01
RHO	7.0395E+00	2.8958E+01	3.8601E+01	RHO	7.55 08E+00	3. 3251E+01	4.3057E+01
н, .	1.1399E+02	1.9396E+02	2.3682E+02	H	1.29906+02	2. 23608+02	2.70695+02
<b>A</b> .	7.0546E+00	8.0153F+00	8.5221E+00	Ä	7.2734E+00	8. 3661E+00	8.9933E+00
S	1.3509E+00	1.3950E+00		Š	1.3760E+00	1 - 4289E+00	1.4740E+00
Z	1.1373E+00	1.2013E+00	1.2336E+00	Ž .	1.1654E+00	1-2288E+00	1.2637E+00
GAME	7.0633E-01	6.7413E-01	6.7497E-01	GAME	7.0036E-01	6.7431E-01	6.8364E-01
U	1.5969E+01	3.8866E+00	3.5524E+00	Ü	1.7220E+01	3. 9255E+00	3.6543E+00
SPECIES		MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	1.20706-01	1.6756E-01	1.8940E-01	E-	1.4196E-01	1.8619E-01	2.0865E-01
Ą	7.5861E-01	6.6493E-01	6.2136E-01	A	7.1608E-01	6.2773E-01	5.8306E-01
A+.	1.2069E-01	1.6746E-01	1.8908E-01	<b>A+</b> ,	1.4195E-01	1.8596E-01	2.0794E-01
A++	3.55658-06	5.4500E-05	1.5728E-04	A++	7.4811E-06	1.1680E-04	3.5550E-04
A+++	9.2172E-15	1.0215E-11	1.3929E-10	A+++	5.0567E-14	6.3831E-11	9.9197E-10
A++++	4.4136E-28	3.7926E-22	5.1690E-20	A++++'	1.0302E-26	1.1445E-20	1.9341E-18
AV .	5.8479E-46	3.40586-36	9. 3407E-33	AV	9.1726E-44	7.9414E-34	2.9770E-30
IVA	8.9885E-69	3.6328E-54	4.1581E-49	. AVI	1.6260E-65	1.06816-50	1.8654E-45
AVII	0.	5.0212E-78	1.0148E-70	AVIŢ	0.	4.9066E-73	1.7126E-65
AVIII	0.	0.	0.	IIIVA	0.	0.	1.3049E-89
P1 = 1	L-00E+05 N/S^-H	US1= 6.20E+0	3 M/SEC	P1 = 1	.00E+05 N/SQ-M	, US1= 6.60E+0	3 M/SEC .
Pl = 1				P1 = 1	•		
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	MOVING SHOCK 5.3255E+02	STANDING SHOCK 3.0945E+03	REFLECTED SHOCK 4.6083E+03		MOVING SHOCK 6.0938E+02	STANDING SHOCK 3.8297E+03	REFLECTED SHOCK 5.6137E+03
P T	MOVING SHOCK 5.3255E+02 0.3394E+01	STANDING SHOCK 3.0945E+03 8.1845E+01	REFLECTED SHOCK 4.6083E+03 9.0290E+01	Р Т	MOVING SHOCK 6.0938E+02 6.6217E+01	STAND ING SHOCK 3-8297E+03 8-7235E+01	REFLECTED SHOCK 5.6137E+03 9.7294E+01
P T RHO	MOVING SHOCK 5.3255E+02 6.3394E+01 7.2970E+00	STAND ING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01	P T RHD	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00	STAND ING SHOCK 3-8297E+03 8-7235E+01 3-5321E+01	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01
P T RHO H	MOVING SHOCK 5.3255E+02 0.3394E+01 7.2970E+00 1.2182E+02	STAND ING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02	Т RHП Н	MOVING SHDCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02	STAND ING SHOCK 3-8297E+03 8-7235E+01 3-5321E+01 2-3913E+02	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02
P T RHO H	MOVING SHOCK 5.3255E+02 0.3394E+01 7.2970E+00 1.2182E+02 7.1637E+00	STAND ING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02 8.1846E+00	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00	Р Т ЯНП Н А	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00	STAND ING SHOCK 3-8297E+03 8-7235E+01 3-5321E+01 2-3913E+02 8-5629E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00
P T RHO H A S .	MOVING SHOCK 5.3255E+02 0.3394E+01 7.2270E+00 1.2182E+02 7.1637E+00 1.3633E+00	STAND ING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02 8.1846E+00 1.4118E+00	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00	Р Т RHO Н А S	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.3888E+00	STANDING SHOCK 3-8297E+03 8-7235E+01 3-5321E+01 2-3913E+02 8-5629E+00 1-4463E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00
P T RHO H A S . Z	MOVING SHOCK 5.3255E+02 0.3394E+01 7.2970E+00 1.2182E+02 7.1637E+00 1.3633E+00 1.1512E+00	STANDING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02 8.1846E+00 1.4118E+00 1.2150E+00	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00 1.2483E+00	P T RHN H A S Z	MOVING SHDCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.3888E+00	STAND ING SHOCK 3-8297E+03 8-7235E+01 3-5321E+01 2-3913E+02 8-5629E+00 1-4463E+00 1-2429E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00 1.2801E+00
P T RHO H A S .	MOVING SHOCK 5.3255E+02 0.3394E+01 7.2270E+00 1.2182E+02 7.1637E+00 1.3633E+00	STAND ING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02 8.1846E+00 1.4118E+00	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00	Р Т RHO Н А S	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.3888E+00	STANDING SHOCK 3-8297E+03 8-7235E+01 3-5321E+01 2-3913E+02 8-5629E+00 1-4463E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00
P T RHD H A S Z GAME	MOVING SHOCK 5.3255E+ 02 6.3394E+ 01 7.2970E+ 00 1.2182E+ 02 7.1637E+ 00 1.3633E+ 00 1.1512E+ 00 7.0318E- 01 1.6595E+ 01	STANDING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02- 8.1846E+00 1.4118E+00 1.2150E+00 6.7365E-01	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00 1.2483E+00 6.7842E-01 3.5987E+00	P T RHO H A S Z GAME	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.3888E+00 1.1799E+00 6.9787E-01 1.7843E+01	STAND ING SHOCK 3.8297E+03 8.7235F+01 3.5321E+01 2.3913E+02 8.5629E+00 1.4463E+00 1.2429E+00 6.7626E-01	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00 1.2801E+00 6.9077E-01 3.7317E+00
P T RHD H A S · Z GAME U	MOVING SHOCK 5.3255E+02 0.3394E+01 7:2970E+00 1.2182E+02 7.1637E+00 1.3633E+00 1.1512E+00 7.0318E-01 1.6595E+01	STANDING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02 8.1846E+00 1.4118E+00 1.2150E+00 6.7365E-01 3.9018E+00	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00 1.2483E+00 6.7842E-01 3.5987E+00	P T RHO H A S Z GAME U	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.1799E+00 6.9787E-01 1.7843E+01	STAND ING SHOCK 3.8297E+03 8.7235F+01 3.5321E+01 2.3913E+02 8.5629E+00 1.4463E+00 1.2429E+00 6.7626E-01 3.9595E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00 1.2801E+00 6.9077E-01 3.7317E+00
P T RHD H A S · Z GAME U	MOVING SHOCK 5.2255E 02 0.3394E+01 7.2770E+00 1.2182E+02 7.1637E+00 1.3633E+00 1.313E-01 1.6595E+01	\$TANDING \$HOCK 3.0945E+01 3.1845E+01 3.1119E+01 2.0855E+02 8.1846E+00 1.4118E+00 1.2150E+00 6.7365E-01 3.9018E+00 MOLE FRACTIONS 1.7693E-01	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00 1.2483E+00 6.7842E-01 3.5987E+00	PT RHO HAS Z Z GAME U SPECIES	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.3888E+00 1.1799E+00 6.9787E-01 1.7843E+01	\$TAND ING SHOCK 3.8297E+03 8.7235F+01 3.5321E+01 2.3913E+02 8.5629E+00 1.4463E+00 1.2429E+00 6.7626E-01 3.9595E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00 1.2801E+00 6.9077E-01 3.7317E+00
P T RHO H A S . Z GAME U SPECIES	MOVING SHOCK 5.3255E+01 7.2970E+00 1.2182E+02 7.1637E+00 1.3633E+00 1.1512E+00 7.0318E-01 1.6595E+01	STANDING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02 8.1846E+00 1.4118E+00 1.2150E+00 6.7365E-01 3.9018E+00  MOLE FRACTIONS 1.7693E-01 6.4622E-01	REFLECTED SHDCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00 1.2483E+00 6.7842E-01 3.5987E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.3888E+00 1.1799E+00 6.9787E-01 1.7843E+01	\$TAND ING \$HOCK 3.8297E+03 8.7235F+01 3.5321E+01 2.3913E+02 8.5629E+00 1.4463E+00 1.2429E+00 6.7626E-01 3.9595E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00 1.2801E+00 6.9077E-01 3.7317E+00
P T RHO H A S . Z GAME U SPECIES	MOVING SHOCK 5.3255E+02 0.3394E+01 7:2970E+00 1.2182E+02 7.1637E+00 1.3633E+00 1.512E+00 7.0318E-01 1.6595E+01	STANDING SHOCK 3.0945E+03 8.1845E+01 2.0855E+02 8.1846E+00 1.4118E+00 1.2150E+00 6.7365E-01 3.9018E+00  MOLE FRACTIONS 1.7693E-01 6.4622E-01 1.7677E-01	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00 1.2483E+00 6.7842E-01 3.5987E+00	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.3888E+00 1.1799E+00 6.9787E-01 1.7843E+01	STAND ING SHOCK 3.8297E+03 8.7235F+01 3.5321E+01 2.3913E+02 8.5629E+00 1.4463E+00 1.2429E+00 6.7626E-01 3.9595E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00 1.2801E+00 6.9077E-01 3.7317E+00  2.1883E-01 5.6289E-01 2.1773E-01
P T RHO H A S CAME U SPECIES	MOVING SHOCK 5.2255E 02 0.3394E+01 7:2770E+00 1.2182E+02 7.1637E+00 1.3633E+00 1.3138E-01 1.6595E+01 1.3138E-01 7.3725E-01 1.3136E-01 5.2162E-06	\$TAND ING \$HOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02 8.1846E+00 1.2150E+00 6.7365E-01 3.9018E+00  MOLE FRACTIONS  1.7693E-01 6.4622E-01 1.7677E-01 7.9886E-05	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00 1.2483E+00 6.7842E-01 3.5987E+00  1.9890E-01 6.0243E-01 1.9843E-01 2.3516E-04	PTTRHOHASSZGAMEU	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.3888E+00 1.1799E+00 6.9787E-01 1.7843E+01	\$TAND ING SHOCK 3.8297E+03 8.7235F+01 3.5321E+01 2.3913E+02 8.5629E+00 1.4463E+00 1.2429E+00 6.7626E-01 3.9595E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00 1.2801E+00 6.9077E-01 3.7317E+00
P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 5.3255E+02 0.3394E+01 7.2970E+00 1.2182E+02 7.1637E+00 1.3633E+00 1.1512E+00 7.0318E-01 1.6595E+01	STANDING SHOCK 3.0945E+03 8.1845E+01 2.0855E+02 8.1846E+00 1.4118E+00 1.2150E+00 6.7365E-01 3.9018E+00  MOLE FRACTIONS 1.7693E-01 6.4622E-01 1.7677E-01	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4956E+00 1.2483E+00 6.7842E-01 3.5987E+00 1.9890E-01 6.0243E-01 1.9843E-01 2.3516E-04 3.6664E-10	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.1799E+00 6.9787E-01 1.7843E+01 	STAND ING SHOCK 3.0297E+03 8.7235F+01 3.5321E+01 2.3913E+02 8.5629E+00 1.4463E+00 1.2429E+00 6.7626E-01 3.9595E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00 1.2801E+00 6.9077E-01 3.7317E+00  2.1883E-01 5.6289E-01 2.1773E-01 5.4619E-04 2.7919E-09
P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 5.3255E+02 0.3394E+01 7:2970E+00 1.2182E+02 7.1637E+00 1.3633E+00 1.1512E+00 7.0318E-01 1.6595E+01	STAND ING SHOCK 3.0945E+03 8.1845E+01 2.0855E+02 8.1846E+00 1.4118E+00 1.2150E+00 6.7365E-01 3.9018E+00  MOLE FRACTIONS 1.7693E-01 6.4622E-01 1.7693E-01 7.9886E-05 2.5596E-11 2.0959E-21	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00 1.2483E+00 6.7842E-01 3.5987E+00  1.9890E-01 6.0243E-01 1.9843E-01 2.3516E-04 3.6664E-10 3.0874E-19	P T RHO H A S Z GAME U SPECIES E- A A+++ A+++ A++++	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.3868E+00 6.9787E+01 1.7843E+01 1.5245E-01 6.9512E-01 1.5242E-01 1.0529E-05 1.1091E-13 4.3914E-26	STAND ING SHOCK 3.8297E+03 8.7235F+01 3.5321E+01 2.3913E+02 8.5629E+00 1.4463E+00 1.2429E+00 6.7626E-01 3.9595E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.2801E+00 6.9077E-01 3.7317E+00  2.1883E-01 5.6289E-01 2.1773E-01 5.4619E-04 2.7919E-09 1.2955E-17
P T RHO H A S Z GAME U SPECIES E-A A + A + + + + + + + + + + + + + + + +	MOVING SHOCK 5.3255E+02 0.3394E+01 7.2970E+00 1.2182E+02 7.1637E+00 1.3633E+00 1.1512E+00 7.0318E-01 1.6595E+01	STANDING SHOCK 3.0945E+03 8.1845E+01 3.11.9E+01 2.0855E+02 8.1846E+00 1.4118E+00 1.2150E+00 6.7365E-01 3.9018E+00  MOLE FRACTIONS 1.7693E-01 6.4622E-01 1.7677E-01 7.9886E-05 2.5596E-11	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4956E+00 1.2483E+00 6.7842E-01 3.5987E+00 1.9890E-01 6.0243E-01 1.9843E-01 2.3516E-04 3.6664E-10	P T RHO H A S Z Z GAME U SPECIES E- A A+++ A+++ AV	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.1799E+00 6.9787E-01 1.7843E+01 1.5245E-01 6.9512E-01 1.0529E-05 1.1091E-13 4.3914E-26 9.2724E-43	\$TAND ING \$HOCK  3.8297E+03  8.7235F+01  3.5321E+01  2.3913E+02  8.5629E+00  1.4463E+00  1.2429E+00  6.7626E-01  3.9595E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00 1.2801E+00 6.9077E-01 3.7317E+00
P T RHO H A S Z GAME U SPECIES S E- A A + A + + A + + A + + A + + A + A +	MOVING SHOCK 5.3255E+02 0.3394E+01 7.2770E+00 1.2182E+02 7.1637E+00 1.3633E+00 1.3633E+01 1.6595E+01  1.3138E-01 7.3725E-01 1.3136E-01 5.2162E-06 2.2113E-14 2.2260E-27 7.8080E-45	STAND ING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02 8.1846E+00 1.4118E+00 1.2150E+00 6.7365E-01 3.9018E+00  MOLE FRACTIONS 1.7693E-01 6.4622E-01 1.7677E-01 7.9886E-05 2.5596E-11 2.0959E-21 5.2540E-35	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00 1.2483E+00 6.7842E-01 3.5987E+00  1.9890E-01 6.0243E-01 1.9843E-01 2.3516E-04 3.6664E-10 3.0874E-19 1.6052E-31	P T RHO H A S Z GAME U SPECIES E- A A+++ A+++ A++++	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.3868E+00 6.9787E+01 1.7843E+01 1.5245E-01 6.9512E-01 1.5242E-01 1.0529E-05 1.1091E-13 4.3914E-26	STAND ING SHOCK 3.8297E+03 8.7235F+01 3.5321E+01 2.3913E+02 8.5629E+00 1.4463E+00 1.2429E+00 6.7626E-01 3.9595E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.2801E+00 6.9077E-01 3.7317E+00  2.1883E-01 5.6289E-01 2.1773E-01 5.4619E-04 2.7919E-09 1.2955E-17
P T RHO H A S Z GAME U SPECIES A A + A + + + + + + + + + + + + A V I	MOVING SHOCK 5.3255E+02 0.3394E+01 7:2970E+00 1.2182E+02 7.1637E+00 1.3633E+01 1.6595E+01  1.3138E-01 7.3725E-01 1.3136E-01 5.2162E-06 2.2113E-14 2.2260E-27 7.8080E-27 7.8080E-45 4.1352E-67	STAND ING SHOCK 3.0945E+03 8.1845E+01 3.1119E+01 2.0855E+02 8.1846E+00 1.4118E+00 1.2150E+00 3.9018E+00  MOLE FRACTIONS 1.7693E-01 6.4622E-01 1.7677E-01 7.9886E-05 2.5596E-11 2.0959E-21 5.2540E-35 1.9958E-52	REFLECTED SHOCK 4.6083E+03 9.0290E+01 4.0887E+01 2.5344E+02 8.7444E+00 1.4556E+00 1.2483E+00 6.7842E-01 3.5987E+00  1.9890E-01 6.0243E-01 1.9843E-01 2.3516E-04 3.6664E-10 3.0874E-19 1.6052E-31 2.6218E-47	P T RHO H A S Z GAME U SPECIES E- A A++ A+++ A+++ AV AVI	MOVING SHOCK 6.0938E+02 6.6217E+01 7.7998E+00 1.3823E+02 7.3840E+00 1.1799E+00 6.9787E-01 1.7843E+01 	STAND ING SHOCK 3.8297E+03 8.7235F+01 3.5321E+01 2.3913E+02 8.5629E+00 1.4463E+00 1.2429E+00 6.7626E-01 3.9595E+00	REFLECTED SHOCK 5.6137E+03 9.7294E+01 4.5072E+01 2.8874E+02 9.2754E+00 1.4927E+00 1.2801E+00 6.9077E-01 3.7317E+00

	1.00[102 11.36 11	031-01002.0			***************************************	19 051- 1820240	/3 H/320
	HOUTE FURCE	CTÀNDING CHOCK	REFLECTED SHOCK		#01/11/10 SH 500 W		DEEL CETED 01000
	MOVING SHOCK			p	MOVING SHOCK		
. Ъ	6.4964E+02	4.2343E+03	6.1663E+03	•	7.3378E+02	5.0910E+03	7.3733E+03
Ţ .	6.7614E+01	9.0189E+01	1.0134E+02	Ť	7.0408E+01	9.6729E+01	1-1065E+02
RHO ·	8.0436E+00	3. 7336E+01	4.6887E+01	RHO	8.5122E+00	4.0845E+01	4.9815E+01
H 😘	1.4681E+02	2.55175+02	3.0751E+02	н ,	l.6474E+02	2.8848E+02	3.4737E+02
A	7.4957E+00	8.7794E+00	9.5922E+00	Α	7.7246E+00	9.2814E+00	1.0318E+01
S .	: 1.4020E+00 ·	1.4638E+00	1.5116E+00	S	1.4289E+00	1.4991E+00	1.5496E+00
Z	1.1945E+00	1.2575E+00	1.2978E+00		1.2243E+00	1.2886E+00	1.3376F+00
GAME -	6.9568E-01	6.7965E-01	6.9962E-01	GAME	6.9220E-01	.6.9113E-01	7.1933E-01
U	1.8464E+01	3.9824E+00	3.8227E+00	u ·	1.9700E+01	4.1108E+00	4.0553E+00
	,			٧,			
CDECTES		- MOLE FRACTIONS		SPECIES	· · · · · · · · · · · · · · · · · · ·	- MOLE FRACTIONS	
SPECIES		- HOLE TRACTIONS	,	SPECIES		- HULE FRACTIONS	
E-	1.6282E-01	2.0475E-01	2.2946E-01	E-	1.8324E-01	2.2394E-01	2.5241E-01
Α' '	6.7437E-01	5.9076E-01	5.4193E-01	Α	6.3355E-01	5.5268E-01	4.9728E-01
A+ · .	1.6279E-01	2.0424E-01	2. 2776E-01	A+	1.8318E-01	2.2282E-01	2.4820E-01
A++ .	1.4587E-05	2.5180E-04	8.5040E-04	A++ -	2.6976E-05	5.5670E-04	2.1074E-03
A+++	2.3503E-13	4.0570E-10	8.1274E-09	A+++	9.7511E-13	2.7417E-09	7.3428E-08
	1.7510E-25	3.5042F-19	9.1975E-17	A+++	2.4117E-24	1.1789E-17	5. 1856E-15
AV	8.3395E-42	1.8583E-31	1.3587E-27	AV	5.4129E-40	4.9445E-29	8.0194E-25
AVI	1.17105-62	3.0875E-47	1.3778E-41	ĀVI	5.1008E-60	1.05128-43	
	1.3221E-90	4.5039E-68	5.6184E-60	AVII			1.4589E-37
AVII		3.9837E-93	3.5290E-82		7.4276E-87	5.0090F-63	2.9620E-54
AVIII	0.	3.70316-73	3. 32 40E-82	AVIII	0.	2.5609F-86	1.7544E-74
					*		
			•				
				•			
						• •	
P1 = 1	.00E+05 N/SQ-M	. US1= 7.00E+0	3 M/SEC	P1 = 1	.00E+05 N/SQ-M	. US1= 7.40E+0	3 M/SEC
	HOUSE SHOCK	STANDING SHOCK	25156752 511064				
	MOVING SHOCK		REFLECTED SHOCK	• .	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
р .	6.9111E+02	4.6536E+03	6.7593E+03	P '.	7.7765E+02	5.5443E+03	8.0234E+03
T-	6.9009E+01	9.3338E+01	1.0586E+02	T	7.1816E+01	1.0043E+02	1.1573E+02
RHO '	8.2814F+00	3.9177E+01	4.8476E+01	RHO.	8.7355E+00	4. 2280E+01	5.1009E+01
H ·	1.5565E+02	2.7160E+02	3.2736E+02	н	1.7409E+02	3.0578E+02	3.6830E+02
A	7.6091E+00	).0178E+00	9.9478E+00	A	7.8426E+00	9.5752E+00	1.0695E+01
S	1.4153E+00	1.4815E+00	. 1.5309E+00	S .	1.4427E+00	1.5170E+00	1.5681E+00
2	1.2093E+00 `	1.2726E+00	1.3172E+00	Z,	1.2396E+00	1.3057E+00	1.35916+00
GAME"	6.9379E-01	6.8460E-01	7.0971E-01	GAME	6.909ZE-01	'6.9917E-01	7.2721E-01
U	1.9083E+01	4.0391E+00	3.9553E+00	U ,	2.0316E+01	4.1999E+00	4.1816E+00
	•				•	•	•
SPECIES		- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	1.7308F-01	2.14226-01	2.4083E-01	E-	1.93286-01	2.3414E-01	2 44245 01
	6.5385E-01	5.7193E-01	5.1969E-01	Ä			2.6424E-01
Α	1.7304E-01	2.1348E-01			6.1348E-01	5.3257E-01	4.7475E-01
A+			2.3814E-01	A+.	1.9321E-01	2.32456-01	2.5776E-01
A++	1.9945E-05	3.7292E-04	1.3465E-03	A++	3.6162E-05	8.4139E-04	3.2402E-03
A+++	4.8417F-13	1.0444E-09	2.4711E-08	A+++	1.9277E-12	7.4169E-09	
A++++	6.6249E-25	1.9999E-18	7. 0535E-16	A++++	8.4946E-24	7.3069E-17	
AV ,	6.8831E-41	2.9585E-30	3.4167E-26	AV ,	4.0649E-39	8.8883E-28	1.7174E-23
AV I	2.4779E-61	- 1.7386E-45	1.4933E-39	IVA	1.0040E-58	7.0012E-42	1. 2524E-35
AVII	9.2899E-89	1.4231E-65	4.4228E-57	I I VA	6.1304E-85	1.9814E-60	1.6507E-51
AVIII.	0.	9.25518-90	2. 7964E-78	I I I VA	0.	8.0338E-83	8.6482E-71

				•			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	8.2271E+02	6. 0122E+03	8.7148E+03	P	9.1633E+02	6.9849E+03	1.0169E+04
Ť	7.3240E+01	1.0433E+02	1.2109E+02	T	7.6157E+01	1.1294E+02	1-3205E+02
RHO .	8.9504E+00	4. 3551E+01	5.2063E+01	RHO	9.3513E+00	4.5406E+01	5.3757E+01
н :	1.8368E+02	3.2350E+02	3.9039E+02	н	2.0363E+02	3.6018E+02	4.3593E+02
Ā	7.9638E+00	9. 8851E+00	1.1074E+01	Ä	8.2176E+00	1.0555E+01	1.1810E+01
Š				 · 🕏	1.4852E+00	1.5688E+00	1.6240E+00
	.1.4567E+00	1.5342E+00	1.5867E+00	Z	1.2867E+00	1.3620E+00	
2.	1.2550E+00	1.3232E+00	1.3823E+00				1.4326E+00
GAME	6.8997E-01	7.0784E-01	7.3266E-01	GAME	6.8914E-01	7.2416E-01	7.3729E-01
U	2.0929E+01	4.3061E+00	4.3508E+00	U	2.2147E+01	4.5666E+00	4.6593E+00
SPECIES	s . <del></del> -	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
€-	2-03226-01	2.4428E-01	2.7657E-01	E-	2.2280E-01	2.6581E-01	3.0199E-01
Α .	5.9361E-01	5.1270E-01	4.5174E-01	A	5.5448E-01	4.7119E-01	4. 0593E-01
A+	2.0312E-01	2.4176E-01	2.6681E-01	A+	2.2263E-01	2.6017E-01	2.8219E-01
A++	4.8125E-05	1.2621E-03	4.8801E-03	A++	8.39256-05	2.8194E-03	9.8947E-03
A+++	3.7510E-12	1.9770E-08	5.8083E-07	A+++	1.3753E-11	1.39478-07	3.4601E-06
A++++	2.8944E-23	4.4024E-16	2.3216E-13	A++++	3.1519E-22	1.5743E-14	6.3575E-12
AV	2.8606E-38	1.5247E-26	3. 3123E-22	 AV	1.2652E-36	4.3646E-24	6.4247E-20
AVI	1.7365E-57	4.3458E-40	9. 2736E-34	 IVA	4.2947E-55	1.6051E-36	2. 0113E-30
				AVII	9.5705E-80	8.24628-53	4.0535E-44
AVII	3.6965E-83	7.0366F-58	7. 4392E-49				
IIIVA	0.	2.16476-79	3.2045E-67	TIIVA	0.	1.4281F-72	7. 5607E+61
						,	
P1 =	1.00E+05 N/SQ-M	. US1= 7.80E+0	3 M/SEC	 P1 = 1	.00E+05 N/SQ-M	, US 1= 8.20E+0	3 M/SEC
P1 =	_			 P1 = 1			
,	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 8.6894E+02	STAND ING SHOCK 6.4920E+03	REFLECTED SHOCK 9.4276E+03	P	MOVING SHOCK 9.6535E+02	STANDING SHOCK 7.4986E+03	REFLECTED SHOCK
P T	MOVING SHOCK 8.6894E+02 7.4685E+01	STAND ING SHOCK 6-4920E+03 1-0853E+02	REFLECTED SHOCK 9.4276E+03 1.2659E+02	 . Р Т	MOVING SHOCK 9.6535E+02 7.7669E+01	STANDING SHOCK 7.4986E+03 1.1756E+02	REFLECTED SHOCK 1.0947E+04 1.3734E+02
P T RHU	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00	STAND ING SHOCK 6. 4920E+03 1. 0853E+02 4. 4570E+01	REFLECTED SHOCK 9.4276E+03 1.2659E+02 5.2931E+01	 , P T RHO .	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00	STANDING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01
P T RHU H	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02	STAND ING SHOCK 6-4920E+03 1-0853E+02 4-4570E+01 3-4163E+02	REFLECTED SHOCK 9.4276E+03 1.2659E+02 5.2931E+01 4.1279E+02	P T RHO H	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02	STANDING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02
P T RHU H	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00	STANO ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01	REFLECTED SHOCK 9.4276E403 1.2659E402 5.2931E401 4.1279E402 1.1447E401	P T RHO H	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00	STANDING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01
P T RHU H	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02	STAND ING SHOCK 6-4920E+03 1-0853E+02 4-4570E+01 3-4163E+02	REFLECTED SHOCK 9.4276E+03 1.2659E+02 5.2931E+01 4.1279E+02	 P T RHO H A S	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00	STANDING SHOCK 7. 4986E+03 1.1756E+02 4.6122E+01 3.793E+02 1.0893E+01 1.5858E+00	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00
P T RHU H	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00	STANO ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01	REFLECTED SHOCK 9.4276E403 1.2659E402 5.2931E401 4.1279E402 1.1447E401	P T RHO H A S	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00	STANDING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01
P T RHU H A S	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.4708E+00	STAND ING SHOCK 6-4920E+03 1-0853E+02 4-4570E+01 3-4163E+02 1-0216E+01 1-5516E+00	REFLECTED SHOCK 9.4276E+03 1.2659E+02 5.2931E+01 4.1279E+02 1.1447E+01 1.6059E+00	P T RHO H A S Z GAME	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+00 6.8931E-01	STAND ING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00 7.2985E-01	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00
P T RHU H A S	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0865E+00 1.4708E+00	STAND ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.3422E+00	REFLECTED SHOCK 9.4276E+03 1.2659E+02 5.2931E+01 4.1279E+02 1.1447E+01 1.6055E+00 1.4070E+00	P T RHO H A S	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+00	STANDING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00
P T RHU H A S Z GAME	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.4708E+00 1.2707E+00 6.8937E-01 2.1539E+01	STAND ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.342E+00 7.1657E-01	REFLECTED SHOCK 9.4276E03 1.2659E+02 5.2931E*01 4.1279E*02 1.147E*01 1.6055E*00 1.4070E*00 7.3573E-01 4.4998E*00	P T RHO H A S Z GAME	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+00 6.8931E-01 2.2764E+01	STAND ING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00 7.2985E-01	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E-01 4.8126E+00
P T RHU H A S Z GAME U	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.4708E+00 1.2707E+00 6.8937E-01 2.1539E+01	STAND ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.3422E+00 7.1657E-01 4.4314E+00	REFLECTED SHOCK 9.4276E03 1.2659E+02 5.2931E*01 4.1279E*02 1.147E*01 1.6055E*00 1.4070E*00 7.3573E-01 4.4998E*00	P T RHO H A S Z GAME U	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+00 6.8931E-01 2.2764E+01	STANDING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00 7.2985E-01 4.7140E+00	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E-01 4.8126E+00
P T RHU H A S Z GAME U SPECIE	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.4708E+00 1.2707E+00 6.8937E-01 2.1539E+01	STANO ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.3422E+00 7.1657E-01 4.4314E+00	REFLECTED SHOCK 9.4276E403 1.2659E+02 5.2931E*01 4.1279E*02 1.147E*01 1.6055E*00 1.4070E*00 7.3573E*01 4.4998E*00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+00 6.8931E-01 2.2764E+01	STANDING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00 7.2985E-01 4.7140E+00  - MOLE FRACTIONS 2.7693E-01	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E-01 4.8126E+00
P T RHU H A S Z GAME U SPECIE	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.4708E+00 1.2707E+00 6.8937E-01 2.1539E+01	STAND ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 7.1657E-01 4.4314E+00	REFLECTED SHOCK 9.4276E+03 1.2659E+02 5.2931E+01 4.1279E+02 1.1447E+01 1.6055E+00 1.4070E+00 7.3573E-01 4.4998E+00	P T RHO H A S Z GAME U  SPECIES E- A	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+00 6.8931E-01 2.2764E+01	STANDING SHOCK 7. 4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 7.2985E+00 4.7140E+00  MOLE FRACTIONS 2.7693E-01 4.5026E-01	REFLECTED SHOCK 1.0947E+04 1.3773E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E-01 4.8126E+00
P T RHU H A S Z GAME U SPECIE E- A+	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.4708E+00 1.2707E+00 6.8937E-01 2.1539E+01	STAND ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.342E+00 7.1657E-01 4.4314E+00	REFLECTED SHOCK 9.4276E03 1.2659E02 5.2931E+01 4.1279E02 1.1447E01 1.6055E+00 1.4070E+00 7.3573E-01 4.4998E+00  2.8929E-01 4.2853E-01 2.7508E-01	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+01 2.2764E+01 2.3246E-01 5.3518E-01 2.3246E-01	STANDING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00 7.2985E-01 4.7140E+00  - MOLE FRACTIONS 2.7693E-01 4.5026E-01 2.6870E-01 2.6870E-01	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E+01 4.8126E+00 3.1424E+01 3.8466E+01 2.8795E+01
P T RHU H A S Z GAME U SPECIE	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.4708E+00 1.2707E+00 6.8937E-01 2.1539E+01 S	STANO ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.3422E+00 7.1657E-01 4.4314E+00	REFLECTED SHOCK 9.4276E+03 1.2659E+02 5.2931E+01 4.1279E+02 1.1447E+01 1.6059E+00 1.4070E+00 7.3573E-01 4.4998E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+00 6.8931E-01 2.2764E+01 	STANDING SHOCK 7. 4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.5858E+00 4.7140E+00  - MOLE FRACTIONS 2.7693E-01 4.5026E-01 2.6870E-01 4.1154E-03	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E-01 4.8126E+00  3.1424E-01 3.8466E-01 2.8775E-01 1.3133E-02
P T RHU H A S Z GAME U SPECIE E A A++ A+++	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.4708E+00 1.2707E+00 6.8937E-01 2.1539E+01 5.7395E-01 2.1293E-01 6.3686E-05 7.2126E-12	STAND ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.3422E+00 7.1657E-01 4.4314E+00  - MOLE FRACTIONS 2.5494E-01 2.5114E-01 1.8981E-03 5.3160E-08	REFLECTED SHOCK 9.4276E03 1.2659E02 5.2931E+01 4.1279E02 1.1447E01 1.6055E+00 1.4070E+00 7.3573E-01 4.4998E+00	P T RHO H A S Z GAME U SPECIES E A A+ A+++	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.3029E+00 6.8931E-01 2.2764E+01 	STAND ING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00 7.2985E-01 4.7140E+00  - MOLE FRACTIONS 2.7693E-01 2.6870E-01 4.1154E-03 3.5323E-07	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E-01 4.8126E+00 3.1424E-01 3.8466E-01 2.8795E-01 1.3133E-02 7.2212E-06
P T RHU H A S Z GAME U SPECIE:	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.4708E+00 1.2707E+00 6.8937E-01 2.1539E+01 5.7395E-01 2.1293E-01 6.3686E-05 7.2126E-12 9.6299E-23	STANO ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.3422E+00 7.1657E-01 4.4314E+00	REFLECTED SHOCK 9.4276E+03 1.2659E+02 5.2931E+01 4.1279E+02 1.1447E+01 1.6055E+00 1.4070E+00 7.3573E-01 4.4998E+00  2.8929E-01 4.2853E-01 2.7508E-01 7.1044E-03 1.4883E-06 1.322ZE-12	P T RHO H A S Z GAME U SPECIES E-A A+A++++++++++++++++++++++++++++++++	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+00 6.8931E-01 2.2764E+01 2.3246E-01 5.3518E-01 2.3224E-01 1.1033E-04 2.6122E-11 1.0240E-21	STANDING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00 7.2985E-01 4.7140E+00  - MOLE FRACTIONS 2.7693E-01 4.5026E-01 2.6870E-01 4.1154E-03 3.5323E-07 8.6652E-14	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E-01 4.8126E+00
P T RHU H A S Z GAME U SPECIE E-A A+A A++A A++A A++A A++A A++A A++A	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.2707E+00 6.8937E-01 2.1539E+01 S	STANO ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.3422E+00 7.1657E-01 4.4314E+00  - MOLE FRACTIONS 2.5494E-01 4.9203E-01 2.5114E-01 1.8981E-03 5.3160E-08 2.6911E-15 2.6706E-25	REFLECTED SHOCK 9.4276E+03 1.2659E+02 5.2931E+01 4.1279E+02 1.1447E+01 1.6059E+00 1.4070E+00 7.3573E-01 4.4998E+00	P T RHO H A S Z GAME U SPECIES E-A A+A+++A+++A+++A+++A+++A+++A+++A+++A++	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+00 6.8931E-01 2.2764E+01 	STANDING SHOCK 7. 4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00 7.2985E-01 4.7140E+00  - MOLE FRACTIONS 2.7693E-01 4.5026E-01 2.6870E-01 4.1154E-03 3.5323E-07 8.6652E-14 6.4917E-23	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E-01 4.8126E+00 3.1424E-01 3.8466E-01 2.8775E-01 1.3133E-02 7.2212E-06 2.5306E-11 5.8700E-19
P T RHU H A S C GAME U SPECIE E A A + + + + + + A + + + + A V I	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0865E+00 1.4708E+00 1.2707E+00 6.8937E-01 2.1539E+01 5 	STAND ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.3422E+00 7.1657E-01 4.4314E+00  - MOLE FRACTIONS 2.5494E-01 4.9203E-01 2.5114E-01 1.8981E-03 5.3100E-08 2.6911E-15 2.6706E-25 2.7777E-38	REFLECTED SHOCK 9.4276E03 1.2659E02 5.2931E+01 4.1279E02 1.1447E+01 1.6055E+00 1.4070E+00 7.3573E-01 4.4998E+00  2.8929E-01 4.2853E-01 2.7508E-01 7.104E-03 1.4883E-06 1.3222E-12 5.2550E-21 5.2550E-21 5.1984E-32	P T RHO H A S Z GAME U SPECIES E-A A++++++++++++++++++++++++++++++++++	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+01 2.2764E+01 2.3246E-01 2.3246E-01 2.3246E-01 1.1033E-04 2.6122E-11 1.0240E-21 8.2074E-36 6.5219E-36	STAND ING SHOCK 7.4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00 7.2985E-01 4.7140E+00  - MOLE FRACTIONS 2.7693E-01 4.5026E-01 4.5026E-01 4.1154E-03 3.5323E-07 8.6652E-14 6.4917E-23 8.1038E-35	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E-01 4.8126E+00 3.1424E-01 3.8466E-01 2.8795E-01 1.3133E-02 7.2212E-06 2.5306E-11 5.8700E-19 5.1374E-29
P T RHU H A S Z GAME U SPECIE E-A A+A A++A A++A A++A A++A A++A A++A	MOVING SHOCK 8.6894E+02 7.4685E+01 9.1559E+00 1.9353E+02 8.0885E+00 1.2707E+00 6.8937E-01 2.1539E+01 S	STANO ING SHOCK 6.4920E+03 1.0853E+02 4.4570E+01 3.4163E+02 1.0216E+01 1.5516E+00 1.3422E+00 7.1657E-01 4.4314E+00  - MOLE FRACTIONS 2.5494E-01 4.9203E-01 2.5114E-01 1.8981E-03 5.3160E-08 2.6911E-15 2.6706E-25	REFLECTED SHOCK 9.4276E+03 1.2659E+02 5.2931E+01 4.1279E+02 1.1447E+01 1.6059E+00 1.4070E+00 7.3573E-01 4.4998E+00	P T RHO H A S Z GAME U SPECIES E-A A+A+++A+++A+++A+++A+++A+++A+++A+++A++	MOVING SHOCK 9.6535E+02 7.7669E+01 9.5397E+00 2.1400E+02 8.3519E+00 1.4996E+00 1.3029E+00 6.8931E-01 2.2764E+01 	STANDING SHOCK 7. 4986E+03 1.1756E+02 4.6122E+01 3.7933E+02 1.0893E+01 1.5858E+00 1.3830E+00 7.2985E-01 4.7140E+00  - MOLE FRACTIONS 2.7693E-01 4.5026E-01 2.6870E-01 4.1154E-03 3.5323E-07 8.6652E-14 6.4917E-23	REFLECTED SHOCK 1.0947E+04 1.3734E+02 5.4659E+01 4.5978E+02 1.2160E+01 1.6418E+00 1.4582E+00 7.3834E-01 4.8126E+00 3.1424E-01 3.8466E-01 2.8775E-01 1.3133E-02 7.2212E-06 2.5306E-11 5.8700E-19

### P1 - 100 kN/ m2

P1 =	1.00E+05 N/SQ-M	. US1= 8.40E+0	3 M/SEC	P1 = 1	-00E+05 N/SQ-+	I, US1= 8.80E+0	3 M/SEC
		•					
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	1,0149E+03	8.0088E+03	1.1723E+04	Р	1.1171E+03	9.0537E+03	1.3327E+04
T	7.9216E+01	1.2217E+02	1.4247E+02	T	8.2466E+01	1.3131E+02'	1.5242E+02
RHO	9.7103E+00	4.6674E+01	5.5423E+01	RHO	1.0010E+01	4.7567E+01	5.6794E+01
н	2,2460E+02	3.9865E+02	4.8376E+02	н ,	2.4654E+02	4. 3851E+02	5.3353E+02
A	8.4916E+00	1.12185+01	1.2506E+01	A	8.7917E+00	1.1838E+01	1.3203E+01
S	1.5142E+00	1.6025E+00	1.6593E+00	S	1.5438E+00	1.6353E+00	1.6940E+00
Ž	1.31936+00	1.4045E+00	1.4846E+00	ž	1.35326+00	1.4495E+00	1.5395E+00
GAME	6.8993E-01	7.3339E-01	7.3945E-01	GAME	6.9265E-01	7. 3625E-01	7.4284E-01
Ü	2,3363F+01	4.8654E+00	4.9581E+00	Ü	2.4550E+01	5.1719E+00	5.2612E+00
	_	·					
SPECIE	5	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	2.4205E-01	2.88016-01	3.2642E-01	E-	10-31019°2	3.10108-01	3.5044E-01
A	5.16058-01	4.2978E-01	3.6397E-01	Α	4.7823E-01	3.9030E-01	3. 2436E-01
4	2.4176E-01	2.7639E-01	2.9280E-01	A+	2.6051E-01	2:8909E-01	2.9999E-01
A++	1.4472E-04	5.8099E-03	1.6793E-02	A++	2.4884E-04	1.0499E-02	2.5164E-02
A+++	4.9395E-11	8.3058E-07	1.3828E-05	A+++	1.7710E-10	- 3.7009E-06	4.14748-05
A++++	3.2961E-21	4.1801E-13	8.6486E-11	A+++	3.4233E-20	6.6674E-12	7. 0942E-10
AV .	5.24338-35	7.8599F-22	4.2311E-18	AV	2.1465E-33	6.4331E-20	1.27198-16
AVI	9.7063E-53	3.0423E-33	9.3369E-28	. AVI	2.1711E-50	1.8695E-30	
IIVA	2.2123E-76	3.6776E-48	2.5098E-40	IIVA	5.2212E-73	3.3316F-44	3.1832E-37
IIIVA	0.	2.5252E-66	9.76408-56	IIIVA	0.	5.3181E-61	1.5132E-51
	1	•					
					•		
					•		
			:			·	
PI =	1-00E+05 N/SO-M	. US 1= 8.60E+03	L M/SEC	P1 = 1	-00F+05 N/SO-M	. US1= 9.00E+0	3 M/SEC
, ,   –	11006103 11/30-11	, 031- 04000-403	77366	• • - •		, 031- 7800010	, J. C. C.
	nousers at territoria.				MOUTHE CHOCK		DEEL CARCO CUDEV
_		STANDING SHOCK					REFLECTED SHOCK
P	1,0655E+03	8.5283E+03	1.2520E+04	. Р	1.1700E+03	9.5917E+03	1.4135E+04
T	8.0813E+01	1.2677E+02	1.4752E+02	Ţ.	8.418BE+01	1.3580E+02	1.5720E+02
RHO .	9.8678E+00	4.7151E+01	5.6134E+01	RHO	1.0140E+01	4.7955E+01	5.7351E+01
H	2.3544E+02	4.1839E+02	5.0840E+02	H .	2.5789E+02	4.5916E+02	5+5862E+02
Δ	8,6380F+00	1.1532E+01	L.2855E+01	A	8.9541E+00	1.2140E+01	1.3551E+01
<b>S</b> .,	1.5289E+00	1.6190E+00	1.6769E+00	S	1.5586E+00	1.65156+00	1.7110E+00
2	1.3361E+00	L. 4267E+00	1.5119E+00	2	1.3706E+00	1.4729E+00	1.5678E+00
GAME	6,9103E-01	7.3530E-01	7.4093E-01	GAME	6.9483E-01	7.3688E-01	7.4512E-01
U	2,3959E+01	5.0197E+00	5.1097E+00	U	2.5143E+01	5.3218E+00	5.3701E+00
SPECIE	s	- MOLE FRACTIONS	<u>-</u>	SPECIES		- MOLE FRACTIONS	
E		2.9909E-01	3.3856E-01	E-	2.7040E-01	3.2107E-01	
A	4.9707E-01	4.0976E-01		Α ΄	4.5952E-01	3.7134E-01	3.0554E-01
A+	2.51186-01	2.8320E-01	2.9680E-01	A+	2.6975E-01	2.9411E-01	3.0251E-01
A++	1.8972E-04	7.9415E-03	2.0844E-02	A++	3.2698E-04	1.3472F-02	2.9727E-02
A+++	9.3420E-11	1.8197E-06	2.4742E-05	A+++	3.3757E-10	7.0463E-06	_ 6.5985E-05
A++++	1.0605E-20	1.7820E-12	2.6245E-10	A++++	1.1148E-19	2.2234E-11	
AV	3.3469E-34	7.8661E-21	2.5384E-17	AV	1.39286-32	4.4059F-19	5.5095E-16
AVI	1.4462E-51	8.7142E-32	1.3062E-26	AVI	3.3005E-49	3.1143E-29	1.2355E-24
AVII	1.0674E-74	4.2977E-46	1.0704E-38	IIVA	2.5637E-71		
AVIII	0.	1.52765-63	1. 5546E- 53	IIIVA	0.	. 1.1467E-58	· . 9.8698E-50

P1 =	1.00E+05 N/SQ-M	. US1= 9.20E+0	3 M/SEC	1	)1 ± 1	.00E+05 N/SQ-M	. US 1= 9.60E+0	3 M/SEC
					3			
	MOUTHC FURSE		0.551.557.50 SUDSY			MONTHE CHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 1.2239E+03	STANDING SHOCK		Р		MOVING SHOCK 1.3347E+03	1.1213E+04	1.6611E+04
Ť	8.5986E+01	1.0132E+04 1.4017E+02	1.4962E+04 1.6198E+02	Ť		8.9840E+01	1.4862E+02	1.7127E+02
RHO	1.0252E+01	4. 8288E+01	5.7832E+01		10	1.0426E+01	4.8781E+01	5.85106+01
H	2.69498+02	4.8020E+02	5.8483E+02	H		2.9342E+02	5. 2346E+02	6.3846E+02
A	9.1258E+00	1.2440E+01	1.3909E+01	Ä		9.4996E+00	1.3040E+01	1.4627E+01
Š	1.5736E+00	1.6676E+00	1.7282E+00	ŝ		1.6035E+00	1.6995E+00	1.7622E+00
ž	1.3884E+00	1.4969E+00	1.5972E+00	ž		1.4250E+00	1.5466E+00	1.6577E+00
GAME	6.9759E-01	7.3756E-01	7.4775E-01		ME	7.0488E-01	7.3978E-01	7.5360E-01
U	2.5730E+01	5.4686E+00	5.5186E+00	Ŭ		2.6892E+01	5.7533E+00	5.7993E+00
						•		
SPECI		401 F F0 167 10116	•		PECTES		- MOLE FRACTIONS	
37661	E2	- MOLE FRACTIONS			PEGIES		- HOLE PRACTIONS	
£-	2.79758-01	3.3195E-01	3.7392E-01	E	•	2.9826E-01	3.5340E-01	3.9674E-01
A	4-4093E-01	3.5294E-01	2.8696E-01	A ·		4.0424E-01	3.1764E-01	2.5179E-01
A+	2.7889E-01	2.9830E-01	3.0442E-01	A+		2.9675E-01	3.0454E-01	3.0641E-01
A++	4.3061E-04	1.6803E-02	3.4596E-02	A+	•	7.5323E-04	2.4379E-02	4.4843E-02
A+++	6.4737E-10	1.25798-05	1.0136E-04	A+	++	2.4405E-09	3.4143E-05	2.1422E-04
A++++	3.6585E-19	6.6207E-11	4.0460E-09	Α+	+++	4.1209E-18	4.4227E-10	1.7796E-08
AV	9.0726E-32	2.5330E-18	2.1706E-15	AV		'4.1579E-30	5.3944E-17	2.4654E-14
AVI	4.9502E-48	4.0413E-28	9.4507E-24	AV	Ī	1.2771E-45	3.62456-26	
AVII	1.1732E-69	6.8926E-41	1.2757E-34	AV		3.25288-66	4.1149E-38	2.2171E-32
I I I VA	5.1570E-96	1.55116-56	4.9999E-48	, AA	111	4.8371E-91	8.5829E-53	5.37478-45
P1 =	1-00E+05 N/SQ-M	• US1= 9.40E+0	3 M/SEC		P1 = 1	.00E+05 N/SQ-M	, US1= 9.80E+0	3 M/SEC
P1 =	1-00E+05 N/SQ-M	. US1= 9.40E+0	3 M/SEC		P1 = 1	.00E+05 N/SQ-M	, US1= 9.80E+0	3 M/SEC
P1 =				•	P1 = 1			3 M/SEC
P1 =		STANDING SHOCK	REFLECTED SHOCK	Р	P1 = 1			. :
	MOVING SHOCK	STANDING SHOCK 1.0661E+04	REFLECTED SHOCK 1.5785E+04			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	MOVING SHOCK 1.2788E+03	STANDING SHOCK 1.0661E+04 1.4441E+02	REFLECTED SHOCK	P T		MOVING SHOCK 1.3916E+03	STANDING SHOCK 1.1746E+04	REFLECTED SHOCK 1.7426E+04
P T	MOVING SHOCK 1.2788E+03 8.7868E+01	STANDING SHOCK 1.0661E+04	REFLECTED SHOCK 1.5785E+04 1.6665E+02	P T	10	MOVING SHOCK 1.3916E+03 9.1928E+01	STANDING SHOCK 1.1746E+04 1.5271E+02	REFLECTED SHOCK 1.7426E+04 1.7586E+02
P T RHO	MOVING SHOCK 1.2788E+03 8.7868E+01 1.0347E+01	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01	P T R H A	10	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.4993E+01
P T RHO H	MOVING SHOCK 1.2788E+03 8.7868E+01 1.0347E+01 2.8133E+02	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02	P T R H A S	10	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01 3.0577E+02	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00
P T RHO H	MOVING SHOCK 1.2788E+03 8.7868E+01 1.0347E+01 2.8133E+02 9.3076E+00	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01	P T R H A S S	10	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01 3.0577E+02 9.7039E+00	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00 1.6892E+00
P T RHO H A S	MOVING SHOCK 1-2788E+03 8-7868E+01 1.0347E+01 2-8133E+02 9-3076E+00 1-5886E+00	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00	P T R H A S S Z G	10 Ame	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+00 7.0936E-01	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00 7.4139E-01	REFLECTED SHOCK 1.7426E+04 1.7786E+02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00 1.6892E+00 7.5568E-01
P T RHO H A S	MOVING SHOCK 1-2788E+03 8-7868E+01 1-0347E+01 2-8133E+02 9-3076E+00 1-5886E+00 1-4066E+00	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00	P T R H A S S	10 Ame	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0948E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+00	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00 1.6892E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.2788E+03 8.7868E+01 1.0347E+01 2.8133E+02 9.3076E+00 1.5886E+00 1.4066E+00 7.0095E-01	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00 7.3849E-01	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00 1.6272E+00 7.5060E-01	P T R H A S S Z G	HO AM E	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+00 7.0936E-01	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00 7.4139E-01	REFLECTED SHOCK 1.7426E+04 1.7786E+02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00 1.6892E+00 7.5568E-01
P T RHO H A S Z GAME	MOVING SHOCK 1-2788E+03 8-7868E+01 1-0347E+01 2-8133E+02 9-3076E+00 1-5886E+00 1-4066E+00 7-0095E-01 2-6313E+01	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00 7.3849E-01	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00 1.6272E+00 7.5060E+01 5.6570E+00	P T H A S Z G U	HO AM E	MOVING SHOCK 1.3916E+03 9.1928E+01 1.00484E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+00 7.0936E+01 2.7468E+01	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00 7.4139E-01	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00
P T RHO H A S Z GAME U	MOVING SHOCK 1.2788E+03 8.7868E+01 1.0347E+01 2.8133E+02 9.3076E+00 1.5886E+00 1.4066E+00 7.0095E-01 2.6313E+01	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00 7.3849E-01 5.6374E+00	REFLECTED SHOCK 1.5785e+04 1.6665e+02 5.8211E+01 6.1135e+02 1.4267e+01 1.7453e+00 1.6272e+00 7.5060E+01 5.6570E+00	P T H A S Z G U	HO AME	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+00 7.0936E-01 2.7468E+01	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00 7.4139E-01 5.8923E+00	REFLECTED SHOCK 1.7426E-04 1.7586E-02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00
PTRHOHASSZGAMEU	MOVING SHOCK 1.2788E+03 8.7868E+01 1.0347E+01 2.8133E+02 9.3076E+00 1.5886E+00 1.4066E+00 7.0095E-01 2.6313E+01	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00 7.3849E-01 5.6374E+00  - MOLE FRACTIONS 3.4272E-01	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00 1.6272E+00 7.5060E+01 5.6570E+00	P T R H A S Z U	HO AME	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+00 7.0936E-01 2.7468E+01	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00 7.4139E-01 5.8923E+00	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.493E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00
P T RHO H A S Z GAME U SPECT	MOVING SHOCK 1-2788E+03 8-7868E+01 1-0347E+01 2-8133E+02 9-3076E+00 1-5886E+00 7-0095E-01 2-6313E+01 ES 2-8905E-01 4-2248E-01	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00 7.3849E-01 5.6374E+00  MOLE FRACTIONS 3.4272E-01 3.3504E-01	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00 1.6272E+00 7.5060E+01 5.6570E+00	P T H A S Z G U	HO AME	MOVING SHOCK 1-3916E+03 9-1928E+01 1-0484E+01 3-0577E+02 9-7039E+00 1-6186E+00 1-4440E+00 7-0936E-01 2-7468E+01 3-0749E-01 3-0749E-01	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 7.4139E-01 5.8923E+00	REFLECTED SHOCK 1.77426E+04 1.77586E+02 5.86558E+01 6.6606E+02 1.4793E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00
PTRHOHASSZGAMEU	MOVING SHOCK 1-2788E+03 8-7868E+01 1-0347E+01 2-8133E+02 9-3076E+00 1-5886E+00 1-4066E+00 7-0095E-01 2-6313E+01	STANDING SHOCK 1.0661E+04 1.4641E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00 7.3849E-01 5.6374E+00  MOLE FRACTIONS 3.4272E-01 3.3504E-01 3.0178E-01	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00 1.6272E+00 7.5060E+01 5.6570E+00	P T T H A S Z G U	HO AME PECIES	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+0 7.0936E-01 2.7468E+01	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00 7.4139E-01 5.8923E+00  MOLE FRACTIONS 3.6400E-01 3.0066E-01 3.0064E-01	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00 4.0802E-01 2.3486E-01 3.0653E-01
P T RHO H A S Z GAME U SPECT	MOVING SHOCK 1.2788E+03 8.7868E+01 1.0347E+01 2.8133E+02 9.3076E+00 1.5886E+00 1.4066E+00 7.0095E-01 2.6313E+01  ES  2.8905E-01 4.2248E-01 2.8791E-01 5.6881E-04	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00 7.3849E-01 5.6374E+00  - MOLE FRACTIONS 3.4272E-01 3.3504E-01 3.0178E-01 2.0439E-01	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+00 1.7453E+00 7.5060E-01 5.6570E+00 3.8544E-01 2.6906E-01 3.0572E-01 3.9635E-02	P T R H A S Z Z U U S S E A A	HO AME PECIES	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+00 7.0936E-01 2.7468E+01 3.0749E-01 3.0548E-01 1.0030E-03	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00 7.4139E-01 5.8923E+00 MOLE FRACTIONS 3.6400E-01 3.0066E-01 3.0674E-01 2.8552E-01	REFLECTED SHOCK 1.77426E+04 1.77586E+02 5.86558E+01 6.6606E+02 1.4793E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00
PTTRHOHASSZGAMEU	MOVING SHOCK 1-2788E+03 8-7868E+01 1-0347E+01 2-8133E+02 9-3076E+00 1-5886E+00 7-0095E-01 2-6313E+01  ES  2-8905E-01 4-2248E-01 2-8791E-01 5-6881E-04 1-2524E-09	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00 7.3849E-01 5.6374E+00  - MOLE FRACTIONS 3.4272E-01 3.0178E-01 2.0439E-02 2.1181E-05	REFLECTED SHOCK  1.5785E+04  1.6665E+02  5.8211E+01  6.1135E+02  1.4267E+01  1.7453E+00  7.5060E+01  5.6570E+00  3.8544E+01  2.6906E+01  3.0572E+01  3.9535E+02  1.4970E+04	P T R H A A S Z Z G U S E — A++ A++	HO AME PECIES	MOVING SHOCK 1-3916E+03 9-1928E+01 1-0484E+01 3-0577E+02 9-7039E+00 1-6186E+00 1-4440E+00 7-0936E-01 2-7468E+01 3-0749E-01 3-0548E-01 1-0030E-03 4-8262E-09	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00 7.4139E-01 5.8923E+00  MOLE FRACTIONS 3.6400E-01 3.0066E-01 3.0064E-01	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.493E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00  4.0802E-01 2.3486E-01 3.0653E-01 5.0294E-02
PT RMO H A S Z GAME U SPECT	MOVING SHOCK 1-2788E+03 8-7868E+01 1-0347E+01 2-8133E+02 9-3076E+00 1-5886E+00 1-4066E+00 7-0095E-01 2-6313E+01 ES 2-8905E-01 4-2248E-01 2-8791E-01 5-6881E-04 1-2206E-18	STANDING SHOCK 1.0661E+04 1.4641E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00 7.3849E-01 5.6374E+00  - MOLE FRACTIONS 3.4272E-01 3.3504E-01 2.0439E-02 2.1181E-05 1.7767E-10	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00 1.6272E+00 7.5060E+01 5.6570E+00  3.8544E+01 2.6906E+01 3.9635E+02 1.4970E+04 8.7295E+09	P T R H A A S Z Z G U S E — A++ A++	HO AME PECIES	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+00 7.0936E-01 2.7468E+01 3.0749E-01 3.0548E-01 1.0030E-03	STANDING SHOCK 1-1746E+04 1-5271E+02 4-8920E+01 5-4569E+02 1-3342E+01 1-7154E+00 7-4139E-01 5-8923E+00 7-4139E-01 3-6400E-01 3-0646E-01 3-0674E-01 2-8552E-02 5-2677E-02	REFLECTED SHOCK 1.77426E+04 1.77586E+02 5.86558E+01 6.6606E+02 1.4793E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00
P T RHO H A S Z GAME U SPECTI	MOVING SHOCK 1.2788E+03 8.7868E+01 1.0347E+01 2.8133E+02 9.3076E+00 1.5886E+00 7.0095E-01 2.6313E+01  ES  2.8905E-01 4.2248E-01 2.8791E-01 5.6881E-04 1.2524E-09 1.2206E-18 6.0927E-31	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 7.3849E-01 5.6374E+00  MOLE FRACTIONS 3.4272E-01 3.3504E-01 3.0178E-01 2.0439E-02 2.1181E-05 1.7767E-10 1.2379E-17	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00 1.6272E+00 7.5060E-01 5.6570E+00  3.8544E-01 2.6906E-01 3.0572E-01 3.9635E-02 1.4970E-04 8.7295E-09 7.6488E-15	P T T R H A S Z Z G U S E-A A+A+A+	HO  AME  PECIES	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0048E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+01 2.7468E+01 3.0749E-01 3.0548E-01 1.0030E-03 4.8262E-09 1.4277E-17	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00 7.4139E-01 5.8923E+00  . MOLE FRACTIONS 3.6400E-01 3.0066E-01 3.0067E-01 2.8552E-02 5.2677E-05 1.0175E-09	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00
P T RHO H A S Z GAME U SPECT A A + A + + + A + + + A V A V I	MOVING SHOCK 1.2788E+03 8.7868E+01 1.0347E+01 2.8133E+02 9.3076E+00 1.5886E+00 1.4066E+00 7.0095E-01 2.6313E+01  ES  2.8905E-01 4.2248E-01 2.8791E-01 5.6881E-04 1.2524E-09 1.2206E-18 6.0927E-31 7.8820E-47	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 1.5214E+00 7.3849E-01 5.6374E+00  MOLE FRACTIONS 3.4272E-01 3.3504E-01 3.0178E-01 2.0439E-02 2.1181E-05 1.7767E-10 1.2379E-17 4.1502E-27	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00 1.6272E+00 7.5060E-01 5.6570E+00	P T R H A S Z G U S E — A A++ A++ A++	AME PECIES	MOVING SHOCK 1-3916E+03 9-1928E+01 1-0484E+01 3-0577E+02 9-7039E+00 1-6186E+00 1-4440E+00 7-0936E-01 2-7468E+01 3-0749E-01 3-0548E-01 1-0030E-03 4-8262E-09 1-4277E-17 2-9534E-29	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.5723E+00 7.4139E-01 5.8923E+00 4.704E-01 3.0066E-01 3.066E-01 3.066E-01 3.066E-01 3.066E-01 3.066E-01	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00  4.0802E-01 2.3486E-01 3.0653E-01 5.0294E-02 2.9971E-04 3.4827E-08 7.4499E-14
P T RHO H A S Z GAME U SPECTI	MOVING SHOCK 1-2788E+03 8-7868E+01 1-0347E+01 2-8133E+02 9-3076E+00 1-5886E+00 1-4066E+00 7-0095E-01 2-6313E+01  ES  2-8905E-01 4-2248E-01 2-8791E-01 5-6881E-04 1-2524E-09 1-2206E-18 6-0927E-31 7-8820E-47 6-1614E-68	STANDING SHOCK 1.0661E+04 1.4441E+02 4.8520E+01 5.0153E+02 1.2738E+01 1.6836E+00 7.3849E-01 5.6374E+00  MOLE FRACTIONS 3.4272E-01 3.3504E-01 3.0178E-01 2.0439E-02 2.1181E-05 1.7767E-10 1.2379E-17	REFLECTED SHOCK 1.5785E+04 1.6665E+02 5.8211E+01 6.1135E+02 1.4267E+01 1.7453E+00 1.6272E+00 7.5060E-01 5.6570E+00  3.8544E-01 2.6906E-01 3.0572E-01 3.9635E-02 1.4970E-04 8.7295E-09 7.6488E-15	P T T R H A S Z Z G U S E-A A+A A+A A+A AV AV	AME PECIES	MOVING SHOCK 1.3916E+03 9.1928E+01 1.0484E+01 3.0577E+02 9.7039E+00 1.6186E+00 1.4440E+01 2.7468E+01 3.0749E-01 3.0548E-01 1.0030E-03 4.8262E-09 1.4277E-17 2.9534E-29 2.1936E-49	STANDING SHOCK 1.1746E+04 1.5271E+02 4.8920E+01 5.4569E+02 1.3342E+01 1.7154E+00 1.7154E+00 7.4139E-01 5.8923E+00	REFLECTED SHOCK 1.7426E+04 1.7586E+02 5.8658E+01 6.6606E+02 1.4993E+01 1.7793E+00 1.6892E+00 7.5668E-01 5.9413E+00  4.0802E-01 2.3486E-01 3.0653E-01 5.0294E-02 2.9971E-04 3.4827E-08 7.4499E-14 1.8316E-21

MOVING SHOCK STANDING SHOCK REFLECTED SHOCK				P1 = 1	*00E+02 M/24-F	), US1= 1.04E+0	4 H/2FC
	MOUTUS 5:105"	CTANDING CURCU			MONTHS SUCCE	CTANDING CHOCK	DEC1 - C. T. C.
_				_			REFLECTED SHOCK
P	1.4495E+03	1.22775+04	1.8252E+04	P	1.5682E+03	1.3305E+04	1.9831E+04
T	9.4121E+01	1.5673E+02	1.8051E+02	Ţ	9.8848E+01	1.6449E+02	1.8955E+02
RHO	1.0525E+01	4.8999E+01	5.8717E+01	RHO	1.0557E+01	4.8948E+01	5.8500E+01
H	3.1835E+02	5.6832E+02	6.9487E+02	н	3.4427E+02	6. 1465E+02	7.5265E+02
A	9.9180E+00	1.3647E+01	1.5369E+01	A :	1.0371E+01	1.4256E+01	1.6113E+01
S	1.6336E+00	1.7313E+00	1.7968E+00	S	1.6633E+00	1.7627E+00	1.8312E+00
Z	1.4633E+00	1.5987E+00	1.7220E+00	2	1.5029E+00	1-6525E+00	1.7884E+00
GAME	7.1421E-01	7.4328E-01	7.5984E-01	GAME	7.2403E-01	7.4767E-01	7.6590E-01
U	2.8039E+01	6.0248E+00	6.1229E+00	U	2.9169E+01	6.3001E+00	6.4159E+00
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	3.1662E-01	3.7448E-01	4.1929E-01	E-	3.3460E-01	3.9486E-01	4.4085E-01
Ā	3.6810E-01	2.8414E-01	2.1826E-01	Ä	3-33208-01	2.5278E-01	1.8754E-01
A+	3.1394E-01	3.0836E-01	3. 0601E-01	Ã.	3.2981E-01	3.1001E-01	3.0311E-01
A++	1.3385E-03	3.2943E-02	5. 6020E-02	Ä++	2.3949E-03	4.2188E-02	6.7780E-02
A+++	9.6071E-09	7.8436E-05	4. 1210E-04	A+++	3.8758E-08	1.5818E-04	7.2747E-04
A++++	4.99718-17	2.1978E-09	6.6130E-08	A++++	6.3228E-16	8.6469E-09	2.0988E-07
AV	2.1226E-28	7.24588-16	2.1472E-13	AV	1.15418-26	6.7498E-15	1.45526-12
AVI	3.7977E-43	1.67598-24	8.9148E-21	IVA	1.2319E-40	4.5705E-23	1.5638E-19
AVII	1.0623E-62	9.6051E-36	2. 2254E-30	IIVA	3.8843E-59	1.0610E-33	1.3179E-28
IIIVA	2.5510E-86	1.34546-49	2.7525E-42	IIIVA	1.5590E-81	7.7420E-47	
AVIII	2.33105-00	1.34346-49	2. 13236-42	AVILI	. 1.55900-01	7-14202-47	0.07100-40
				÷	•		
	•		,				
P1 =	1.00E+05 N/SQ-	, US1= 1.02E+0	4 M/SEC	P1 = 1	.00E+05 N/SQ-M	, US1= 1.06E+0	4 M/SEC
					*		
			REFLECTED SHOCK			STANDING SHOCK	
P	1.5084E+03	1.2794E+04	1.9048E+04	ρ	1.6290E+03	1.3790E+04	2.0603E+04
T	9.6428E+01	1.6066E+02	1.8501E+02	Ţ	1.0137E+02	1.6833E+02	1.9397E+02
RHO	1.0548E+01	4-8987E+01	5.8677E+01	RHO	1.0551E+01	4.8736E+01	5.8302E+01
н	3.3119E+02	5.9129E+02	7.2352E+02	н.	3.5759E+02	6.3826E+02	7.8229E+02
A	1.0141E+01	1.3953E+01	1.5737E+01	A	1.0604E+01	1.4569E+01	1.64826+01
S	1.6485E+00	1.7471E+00	1.8138E+00	S	1.6781E+00	1.7788E+00	1.8482E+00
. 2	1.4829E+00	1.6256E+00	1.7546E+00	Z	1.5230E+00	1.6810E+00	1.8218E+00
GAME	7.1920E-01	7.4540E-01	7.6289E-01	GAME	7.2831E-01	7. 5009E-01	7.6876E-01
U .	2.8606E+01	6.16615+00	6.2691E+00	U ·	2.9729E+01	6.4672E+00	6.5637E+00
SPECIE	s <del></del>	- MOLE FRACTIONS		SPEC 1ES		- MOLE FRACTIONS	
E-	3.2566E-01	3.8483E-01	4.3008E-01	E-	3.4340E-01	4.0511E-01	4.5109E-01
Ã	3.5046E-01	2.6808E-01	2. 0271E-01	Ā	3.16418-01	2.3739E-01	1.7347E-01
Ā+	3.2208E-01	3.09468-01	3. 0489E-01	Ä+	3.3700E-01	3.1012E-01	3.0073E-01
A++	1.7900E-03	3.75208-02	6. 1767E-02	A++	3.3700E-01	4.7167E-02	7.3770E-02
A+++	1.92638-08	1.1316E-04	5.5106E-04	A+++	7.7825E-08	2.1797E-04	9.3907E-04
A++++	1.7718E-16	4.4854E-09	1. 1917E-07	A++++	2-2484E-15	1.6247E-08	3.5451E-07
AV	1.5570E-27	2.31276-15	5.6888E-13			1.89116-14	3. 4790E-12
AVI	6.7822E-42	9.33628-24	3. 8350E- 20	AV	8.5032E-26		5.7822E-19
AVII	6.3317E-61	1.10615-34	1.78045-29	AVI	2.2149E-39	2.1075E-22	
AVIII	6.1389E-84	3.64355-48		AVII	2.3362E-57	9.3270E-33	8.4877E-28
WA ! ! !	0.13075-04	3.04325748	4. 5926E-41	111VA	3.8188E-79	1.4576E-45	8.5679E-39

P1 = 1.00E+05 N/SQ-	-M. US 1= 1.08E+04 M/SEC	P1 = 1.00E+05 N/SQ-M. US1= 1.15E+04 M/SEC	
		,	
		····	
P 1.6908E+03	K STANDING SHOCK REFLECTED SHO 1.4287E+04 2.1368E+0		
T 1.0399E+02			
RHO 1.0536E+01	1.72126+02 1.98346+( 4.85576+01 5.80776+(		
H 3.7117E+02	6.6240E+02 8.1247E+0		
A 1.0836E+01	1.48815+01 1.68485+0		
S 1.6928E+00	1.7946E+00 1.8648E+0		
Z 1.5433E+00	1.7094E+00 1.8550E+0		
GAME 7.3168E-01	7.5259E-01 7.7148E-0		
U 3.0287E+01	6.6032E+00 6.7124E+0		
			•
SPECIES	MOLE FRACTIONS	SPECIES MOLE FRACTIONS	
E- 3.5202E-01	4.15016-01 4.60936-	-01 E- 3.8053E-01 4.4810E-01 4.9399E-0	
A 3.0020E-01			
A+ 3.4353E-01			
A++ 4.2481E-03			
A+++ 1.5488E-01			
A++++ 7.8664E-15			
AV 6.0906E-25			
AVI 3.7961E-35			
AVII 1.2851E-55			
AVIII 7.9428E-71			
			•
-			
	•		
1			
P1 = 1.00E+05 N/SQ-	-M; US1= 1.10E+04 M/SEC	P1 = 1.00E+05 N/SQ-M. US1= 1.20E+04 M/SEC	
P1 = 1.00E+05 N/SQ-	-M; US1= 1.10E+04 M/SEC	P1 = 1-00E+05 N/SQ-M, US1= 1-20E+04 M/SEC	
	-		•••
MOVING SHOCK	- K STANDING SHOCK REFLECTED SHO	OCK MOVING SHOCK STANDING SHOCK REFLECTED SHOC	
MOVING SHOCK P 1.7536E+03	C STANDING SHOCK REFLECTED SHC 1.4779E+04 2.2131E+0	OCK MOVING SHOCK STANDING SHOCK REFLECTED SHOC 04 P 2.0846E+03 1.7356E+04 2.6162E+04	4
MOVING SHOCK P 1.7536E+03 T 1.0667E+02	C STANDING SHOCK REFLECTED SHO 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0	DCK MOVING SHOCK STANDING SHOCK REFLECTED SHOC 14 P 2.0846E+03 1.7356E+04 2.6162E+04 12 T 1.2023E+02 1.9467E+02 2.2534E+02	4 2
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01	C STANDING SHOCK REFLECTED SHC 1.4779E+04 2.2131E+1 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+1	DCK MOVING SHOCK STANDING SHOCK REFLECTED SHOC 104 P 2.0846E+03 1.7356E+04 2.6162E+04 102 T 1.2023E+02 1.9467E+02 2.2534E+02 11 RHO 1.0418E+01 4.7243E+01 5.6243E+01	4 2 L
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.8899E+02	C STANDING SHOCK REFLECTED SHI 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4323E+0	OCK MOVING SHOCK STANDING SHOCK REFLECTED SHOC 104 P 2.0846E+03 1.7356E+04 2.6162E+04 105 T 1.2023E+02 1.9467E+02 2.2534E+02 106 RHO 1.0418E+01 4.7243E+01 5.6243E+01 107 H 4.5790E+02 8.1598E+02 1.0058E+03	1 2 1 3
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.8499E+02 A 1.1064E+01	C STANDING SHOCK REFLECTED SHO 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4323E+0 1.5191E+01 1.7223E+0	DCK MOVING SHOCK STANDING SHOCK REFLECTED SHOC D4 P 2.0846E+03 1.7356E+04 2.6162E+04 D2 T 1.2023E+02 1.946TE+02 2.2534E+02 D1 RHD 1.0418E+01 4.7243E+01 5.6243E+01 D2 H 4.5790E+02 8.1598E+02 1.0058E+03 D1 A 1.2092E+01 1.6793E+01 1.9118E+01	4 2 1 3
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.8499E+02 A 1.1064E+01 S 1.7074E+00	C STANDING SHOCK REFLECTED SHO 1.4779E+04 2.2131E+1 1.7584E+02 2.0279E+0 4.8358E+01 5.7756E+0 6.8690E+02 8.4323E+1 1.5191E+01 1.7223E+0 1.8102E+00 1.8820E+0	DCK MOVING SHOCK STANDING SHOCK REFLECTED SHOC 104 P 2.0846E+03 1.7356E+04 2.6162E+04 102 T 1.2023E+02 1.946TE+02 2.2534E+02 101 RHO 1.0418E+01 4.7243E+01 5.6243E+01 102 H 4.5790E+02 8.1598E+02 1.0058E+03 101 A 1.2092E+01 1.6793E+01 1.9118E+01 100 S 1.7783E+00 1.8882E+00 1.9661E+00	4 2 1 3 1
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.0499E+02 A 1.1064E+01 S 1.7074E+00 Z 1.5636E+00	C STANDING SHOCK REFLECTED SHI 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7755E+0 6.8690E+02 8.4323E+0 1.5191E+01 1.7223E+1 1.8102E+00 1.8820E+0 1.7379E+00 1.8896E+0	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOC	1 1 1 1
MOVING SHOCK P 1.7536E+03 T 1.066FE+02 RHO 1.0514E+01 H 3.0499E+02 A 1.106E+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.3388E-01	C STANDING SHOCK REFLECTED SHO 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4323E+0 1.5191E+01 1.7223E+0 1.8102E+00 1.8820E+0 1.7379E+00 1.8820E+0 7.75511E-01 7.7413E-0	DCK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK PP 2.0846E+03 1.7356E+04 2.6162E+04 2.6262E+04 2.62	2 1 3 1 0
MOVING SHOCK P 1.7536E+03 T 1.066FE+02 RHO 1.0514E+01 H 3.0499E+02 A 1.106E+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.3388E-01	C STANDING SHOCK REFLECTED SHI 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7755E+0 6.8690E+02 8.4323E+0 1.5191E+01 1.7223E+1 1.8102E+00 1.8820E+0 1.7379E+00 1.8896E+0	DCK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK PP 2.0846E+03 1.7356E+04 2.6162E+04 2.02 T 1.2023E+02 1.946FE+02 2.2534E+02 2.2534E+	2 1 3 1 0
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.0499E+02 A 1.1064E+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.3388E-01 U 3.0849E+01	C STANDING SHOCK REFLECTED SHC 1.4779E+04 2.2131E+1 1.7584E+02 2.0279E+( 4.8358E+01 5.7754E+1 6.8690E+02 8.4323E+1 1.5191E+01 1.7223E+1 1.8102E+00 1.8820E+1 1.7379E+00 1.8896E+1 7.5511E-01 7.7413E-1 6.7379E+00 6.8677E+0	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04   2.622   T   1.2023E+02   1.946TE+02   2.2534E+02   1.946TE+02   2.2534E+02   1.946TE+02   2.2534E+02   1.946TE+01   3.6243E+01   4.7243E+01   5.6243E+01   2.2534E+02   1.0058E+03   1.0058E+03   1.2092E+01   1.6793E+02   1.0058E+03   1.2092E+01   1.6793E+01   1.918E+01   1.0058E+03   1.7783E+00   1.8882E+00   1.9661E+00   1.9661E+00   2.0643E+00   2.0643E+00   2.0643E+00   2.0643E+00   2.0643E+00   2.0643E+00   3.3610E+01   7.4422E+00   7.6474E+00   1.9661E+00   1.9661E+01   1.9	2 1 3 1 0
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.0499E+02 A 1.1064E+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.3388E-01 U 3.0849E+01	C STANDING SHOCK REFLECTED SHO 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4323E+0 1.5191E+01 1.7223E+0 1.8102E+00 1.8820E+0 1.7379E+00 1.8820E+0 7.75511E-01 7.7413E-0	DCK MOVING SHOCK STANDING SHOCK REFLECTED SHOCK PP 2.0846E+03 1.7356E+04 2.6162E+04 2.6262E+04 2.62	2 1 3 1 0
MOVING SHOCK P 1.7536E+03 T 1.066FE+02 RHO 1.0514E+01 H 3.0499E+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.3388E-01 U 3.0849E+01  SPECIES	( STANDING SHOCK REFLECTED SHO 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4323E+0 1.5191E+01 1.7223E+0 1.8102E+00 1.8820E+1 1.7379E+00 1.8896E+0 7.5511E-01 7.7413E-0 6.7379E+00 6.8677E+0	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04	
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.08499E+02 A 1.1064F+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.3388E-01 U 3.0849E+01  SPECIES	C STANDING SHOCK REFLECTED SHO 1.4779E+04 2.2131E+1 1.7584E+02 2.0279E+0 4.8358E+01 5.7756E+1 6.8690E+02 8.4323E+1 1.5191E+01 1.7223E+1 1.8102E+00 1.8820E+1 1.7379E+00 1.88920E+0 7.5511E-01 7.7413E-1 6.7379E+00 6.8677E+0	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04   2	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MOVING SHOCK P 1.7536F+03 T 1.0667E+02 RHO 1.0514E+01 H 3.8499E+02 A 1.1064FE+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.3388E-01 U 3.0849E+01  SPECIES  E- 3.6045E-01 A 2.8470E-01	( STANDING SHOCK REFLECTED SHI 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4323E+0 1.5191E+01 1.7223E+0 1.8102E+00 1.8820E+0 1.7379E+00 1.8896E+1 7.5511E-01 7.7413E-0 6.7379E+00 6.8677E+0	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04   2.622   T   1.2023E+02   1.946TE+02   2.2534E+02   1.946TE+02   2.2534E+02   1.946TE+01   4.7243E+01   5.6243E+01   5.6243E+01   1.946TE+02   1.0058E+03   1.946TE+02   1.0058E+03   1.946TE+02   1.0058E+03   1.946TE+00   1.	4 2 1 3 1 0 0 0 0
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.0499E+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.3388E-01 U 3.0849E+01  SPECIES  E- 3.6045E-01 A 2.8470E-01 A+ 3.4926E-01	( STANDING SHOCK REFLECTED SHO 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4323E+0 1.5191E+01 1.7223E+1 1.8102E+00 1.8820E+1 1.7379E+00 1.8820E+0 7.75511E-01 7.7413E-0 6.7379E+00 6.8677E+0	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04   2.622E+02   1.9467E+02   2.2534E+04   2.6162E+04   2.6162	4 2 1 3 1 0 0 0 0 0 1 0 0 0 0 0 1
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.0499E+02 A 1.1064F+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.338E-01 U 3.0849E+01  SPECIES E- 3.6045E-01 A 2.8470E-01 A+ 3.4926E-01 A++ 5.5956E-03	C STANDING SHOCK REFLECTED SHI 1.4779E+04 2.2131E+1 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4322E+1 1.5191E+01 1.7223E+1 1.8102E+00 1.8820E+1 1.7379E+00 1.8896E+1 7.5511E-01 7.7413E-1 6.7379E+00 6.8677E+0	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04   2	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.0499E+02 A 1.1064F+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.338E-01 U 3.0849E+01  SPECIES E- 3.6045E-01 A 2.8470E-01 A+ 3.4926E-01 A++ 5.5956E-03	( STANDING SHOCK REFLECTED SHO 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4323E+0 1.5191E+01 1.7223E+0 1.8102E+00 1.8820E+0 1.7379E+00 1.8896E+0 7.5511E-01 7.7413E-0 6.7379E+00 6.8677E+0 MOLE FRACTIONS	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04	1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.0499E+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.3388E-01 U 3.0849E+01  SPECIES  E- 3.6045E-01 A 2.8470E-01 A+ 3.4926E-01 A++ 3.0317E-07 A+++ 3.0317E-07 A+++ 2.6771E-14	C STANDING SHOCK REFLECTED SHC  1.4779E+04 2.2131E+( 1.7584E+02 2.0279E+( 4.8358E+01 5.7754E+( 6.8690E+02 8.4323E+( 1.5191E+01 1.7223E+( 1.8102E+00 1.8820E+( 1.7379E+00 1.8820E+( 6.7379E+00 6.8677E+( 6.7379E+00 6.8677E+( 6.7379E+01 1.4752E-( 6.7379E+01 1.4752E-( 6.7379E+01 1.4752E-( 6.7379E+01 1.4752E-( 6.7379E+01 1.4752E-( 6.7379E+01 1.4752E-( 6.7379E-01 1.4752E-( 6.7379E-01 1.4752E-( 6.7379E-01 1.4752E-( 6.7379E-01 1.4752E-( 6.7379E-01 1.4752E-( 6.7379E-01 1.4752E-( 6.738674E-01 2.9413E-( 6.738674E-01 1.5018E-( 6.738674E-04 1.5018E-( 6.738674E-04 1.5018E-( 6.738674E-04 1.5018E-( 6.938674E-04 1.5018E-( 6.93867E-08 9.3862E-08	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04   2.6162E+01   2.616	1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.0499E+01 S 1.7074E+00 C 1.5636E+00 GAME 7.3388E-01 U 3.0849E+01  SPECIES E- 3.6045E-01 A 2.8470E-01 A+ 3.4926E-01 A++ 3.0317E-07	C STANDING SHOCK REFLECTED SHI 1.4779E+04 2.2131E+1 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4322E+1 1.5191E+01 1.7223E+1 1.8102E+00 1.8820E+1 1.7379E+00 1.8896E+0 7.5511E-01 7.7413E-0 6.7379E+00 6.8677E+0 MOLE FRACTIONS	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04   2.2534E+02   1.946TE+02   2.2534E+02   1.946TE+02   2.2534E+02   1.946TE+02   2.2534E+02   1.10418E+01   4.7243E+01   5.6243E+01   1.9418E+01   4.7243E+01   1.9058E+03   1.9661E+03	01 01 01 01 01 01 01 01 01 01 01 01 01 0
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.0899E+02 A 1.1064E+01 S 1.7074E+00 Z 1.5636E+00 GAME 7-3388E-01 U 3.0849E+01  SPECIES E- 3.6045E-01 A 2.8470E-01 A+ 3.4926E-01 A++ 3.0317E-01 A+++ 2.6771E-14 AV 4.1956E-24	C STANDING SHOCK REFLECTED SHOCK 1.4779E+04 2.2131E+0 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+0 6.8690E+02 8.4323E+0 1.5191E+01 1.7223E+1 1.8102E+00 1.8820E+0 1.7379E+00 1.8896E+0 7.75511E-01 7.7413E-0 6.7379E+00 6.8677E+0	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04	001 001 000 001 000 001 000 001 001 001
MOVING SHOCK P 1.7536E+03 T 1.0667E+02 RHO 1.0514E+01 H 3.0499E+01 S 1.7074E+00 Z 1.5636E+00 GAME 7.3388E-01 U 3.0849E+01  SPECIES  E- 3.6045E-01 A 2.8470E-01 A+ 3.4926E-01 A+ 3.4926E-01 A++ 3.0317E-01 A++ 3.0317E-01 A++ 4.0756E-24 AV 4.1956E-24 AV 6.2151E-31	C STANDING SHOCK REFLECTED SHC  1.4779E+04 2.2131E+1 1.7584E+02 2.0279E+0 4.8358E+01 5.7754E+1 6.8690E+02 8.4323E+1 1.5191E+01 1.7223E+1 1.8102E+00 1.8820E+0 1.7379E+00 1.8820E+0 7.5511E-01 7.7413E-0 6.7379E+00 6.8677E+0	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   2.0846E+03   1.7356E+04   2.6162E+04   2.6162E+01   2	14 22 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

01 -	1.00E+05 N/SQ-M	. US1= 1.25E+0	A MISEC	01 = 1	.00E+05 N/SQ-H	. US1= 1.35E+0	A M/656
F1 -	1.006402 N.34-H	, 031- 1.232+0	74 M/3EG	F1 - 1.	. UUE TUO N/ 34-H	, 031- 1.335-	14 M/3CC
	MONTHS SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	2.2619E+03	1.8781E+04	2.8406E+04	Р	2.6392E+03	2.18956+04	3.3426E+04
Ť	1.2675E+02	2. 0428E+02	2.3712E+02	Ť	1.3894E+02	2.2399E+02	2.6141E+02
RHO	1.0407E+01	4.6811E+01	5.5620E+01	RHD	1.0450E+01	4.6120E+01	5.4867E+01
Н	4.9677E+02	8. 8503E+02	1.0931E+03	H	5.7931E+02	1.0316E+03	1.2808E+03
A	1.2574E+01	1.7615E+01	2.0098E+01	A	1.3548E+01	1.9285E+01	2.2089E+01
ŝ	1.8134E+00	1.9265E+00	2.0080E+00	ŝ	1.8822E+00	2.0015E+00	2.0885E+00
ž	1.7148E+00	1.9639E+00	2.1539E+00	ž	1.8179E+00	2.1194E+00	2.3305E+00
GAME	7.2747E-01	7.7341E-01	7.9093E-01	GAME	7.2678E-01	7.8345E-01	8.0089E-01
· U	3.5011E+01	7.8071E+00	8.0441E+00	U	3.7827E+01	8.5989E+00	8.9042E+00
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SPECIE	s	- MOLE, FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	4.1684E-01	4.9082E-01	5.3572E-01	€-	4.4990E-01	5.2817E-01	5.7091E-01
Δ	1.9376E-01	1.2176E-01	7.4756E-02	A	1.5149E-01	8.12196-02	· 4.5426E-02
A+	3.6198E-01	2.8612E-01	2.4952E-01	A+	3.4740E-01	2-5793E-01	2.0890E-01
A++	2.7408E-02	9.9203E-02	1.3384E-01	A++	5.1106E-02	1.2781E-01	1.6239E-01
A+++	1.6941E-05	2.0953E-03	6. 1437E-03	A+++	9.5786E-05	4.8630E-03	1.2280E-02
A++++ '	4.4709E-11	1.6351E-06	1.9534E-05	A++++	1.2098E-09	1.0091E-05	9. 6336E-05
AV	5.3119E-19	3.9324E-11	2. 9957E-09	AV	1.0667E-16	8.5694E-10	4.7424E-08
AVII.	1.5811E-29	1.9433E-17	1.5770E-14 1.7648E-21	IVA	3.7557E-26	2.0691E-15	1.0830E-12
	2.0873E-43 1.9759E-60	1.0909E-25 5.2674E-36	3.0392E-30	AVIII	1.3104E-38 5.7578E-54	8.4937E-23	7.3779E-19
IIIVA	1.91395-00	3.20/46-36	3.03922-30	AVIII	2012105-34	4.3411E-32	1.0900E-26
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	*				144.		
					E 22.		
					46 15 15		
		-	4		·	,	
Pl =	1.00E+05 N/SQ-M	US1= 1.30E+0	4 M/SEC	P1 = 1.	.00E+05 N/SQ-H	us1= 1.40E+0	4 M/SEC
	,						
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	a light	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	2.4467E+03	2.0295E+04	3.0848E+04	· P eig.	12:83 90E+03	2.3563E+04	3.6141E+04
T	1.3295E+02	2.1396E+02	2.4912E+02*	11 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.4476E+02	2.3410E+02	2.7418E+02
RHO	1.0423E+01	4.6487E+01	5.5222E+01	( RHO ينځون پ	71.0482E+01	4.5801E+01	5.4470E+01
н	5.3724E+02	9.5687E+02	1.1851E+03·3\\	ing springly better the contraction	6.2297E+02	1.1092E+03	1.3806E+03
A	1.3056E+01	1.8437E+01	2•1085E±01 👋 🦖	` A	1.4052E+01	2.0134E+01	2.3127E+01
S	1.8478E+00	1.9637E+00	2.0485E+00 , L.	S. S. S. S.	1.9161E+00	2.0385E+00	2.12876+00
Z	1.7657E+00	2.0405E+00	2.2423E+00	~ -	1.8711E+00	2. 1977E+00	2.4199E+00
GAME	7.2612E-01	7.7862E-01	7.9590E-01 痒 🚉	GAME	7.2898E-01	7.8792E-01	8.0610E-01
U	3.6417E+01	8.2027E+00	8.4777E+00	· · · · · · · · · · · · · · · · · · ·	3.9240E+01	9.0065E+00	9.3418E+00
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SPECIES	5	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	4.3365E-01	5.0992F-01	5.5403E-01	. E-	4.6557E-01	5.4498E-01	5.8676E-01
Α	1.7143E-01	1.0011E-01	5.8527E-02	~ A	1.3354E-01	6.5531E-02	3.4773E-02
A+	3.5624E-01	2.7328E-01	2.2982E-01	` A+	3.3640E-01	2.4101E-01	1.8707E-01
A++	3.8642E-02	1.1343E-01	1.4872E-01	A++	6.4298E-02	1.4151E-01	1.7469E-01
A+++	4.3207E-05	3.2506E-03	8.8637E-03	A+++	1.9014E-04	6.9548E-03	1.6508E-02
A+++	2.6257E-10	4.1868E-06	4.4951E-05	A++++	4.6017E-09	2.2438E-05	1.9637E-04
AV	9.0659E-18	1.9223E-10	1.2596E-08	AV	9.3482E-16	3.3672E-09	1.6547E-07
AV I	· 1.0034E-27.	2.1417E-16	1.4162E-13	AVI	9.2409E-25	1.6639E-14	7.4222E-12
AVII	7.5799E-41	3.3421E-24	4: 0507E-20	1 I VA	1.2608E-36	1.6646E-21	1.1610E-17
IIIVA	5.5105E-57	5.4259E-34	2. 1196E-28	1 I I VA	2.7264E-51	2.4435E-30	4.5383E-25
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P1 = 1	-00E+05 N/SQ-M	. US 1= 1.45E+0	4 M/SEC	P1 = 1	.00E+05 N/SQ-M	. US1= 1.55E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MUNING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	3.0461E+03	2.5276E+04	3.8961E+04	ρ	3.4814E+03	2. 88 01 E+04	4.4854E+04
Ŧ	1.5051E+02	2.4434E+02	2.87406+02	· •	1.6201E+02	2.65328+02	3.1500E+02
RHO	1.0508E+01	4. 5450E+01	5.4017E+01	RHO	1.0533E+01	4.46295+01	5.2993E+01
				H			
H	6.6822E+02	1.1894E+03	1.4846E+03	A	7.6345E+02	1.3579E+03	1.7050E+03
A	1.4570E+01	2.0990E+01	2.4194E+01	Š	1.5645E+01	2.2734E+01	2.6392E+01
S	1.9501E+00	2.0750E+00	2.1687E+00		2.0176E+00	2. 14738+00	2.2473E+00
Z	1.9261E+00	2. 2760E+00	2.5097E+00	Ι	2.0402E+00	2.43246+00	2.6870E+00
GAME	7.3226E-01	7.9222E-01	8.1157E-01	GAME	7.4050E-01	8.0088E-01	8.2290E-01
U .	4.0651E+01	9.4245E+00	9.7987E+00	U	4-3465E+01	1.0280F+01	1.0760E+01
SPECIES	· ·	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	4.8081E-01	5.6064E-01	6.0154E-01	E-	5.0985E-01	5.8888E-01	6.2784E-01
Ā	1.1708E-01	5.2470E-02	2.6289E-02	A	8.8161E-02	3.2876E-02	1.4577E-02
Δ+	3.2377E-01	2.2284F-01	1.6512E-01	A+	2.9512E-01	1.8465E-01	1.2371E-01
A++	7.7998E-02	1.5441E-01	1.8511E-01	A++	1.0589E-01	1.7674E-01	1.9873E-01
A+++	3.4846E-04	9.5959E-03	2.1558E-02	A+++	9.8036E-04	1.6684E-02	3.3890E-02
A++++	1.5257E-08	4.6817E-05	3.8099E-04	A++++	1.2379E-07	1.7359E-04	1.2453E-03
AV	6.6388E-15	1.1974E-08	5.3529E-07	AV	2.1025E-13	1.17756-07	4. 5032E-06
AVI	1.6871E-23	1.1566E-13	4.5556E-11	IVA	2.9009E-21	3.8701E-12	1.2464E-09
AVII	7.9584E-35	2.6530E-20	1.5580E-16	IIVA	1.2428E-31	3.9997E-18	1.7785E-14
ITIVA	7.3919E-49	1.0381E-28	1.5289E-23	AVIII	1.5470E-44	9.3190E-26	9.3956E-21
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P1 = 1	1.00E+05 N/SQ-M	US 1= 1.50E+0	94 M/SEC	P1 = 1	.00E+05 N/SQ-M	, US1= 1.60E+0	4 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р	3.2604E+03	2.7034E+04	4.1887E+04	Р	3.7114E+03	3.0644E+04	4.7975E+04
Ť	1.5625E+02	2.5476E+02	3.0106E+02	Ť	1.6785E+02	2.7621E+02	3.2968E+02
RHO	1.0526E+01	4.5071E+01	5.3528E+01	RHO	1.0534E+01	4. 4189E+01	5.2422E+01
H	7.1505E+02	1:27256+03	1.59326+03	H	8.1351E+02	1.4469E+03	1.8227E+03
Ä	1.5101E+01	2.1857E+01	2.5288E+01	Ä	1.6200E+01	2.3634E+01	2.7535E+01
Š	1.9839E+00	2.1113E+00	2.2085E+00	Š	2.0512E+00	2.1831E+00	2.7555E+01 2.2864E+00
ž	1.9825E+00	2.3544E+00	2.5992E+00	ž		2.5106E+00	
	7.3620E-01	7.9651E-01	8.1725E-01	GAME	2.0991E+00		2.7760E+00
GAME				U	7.4489E-01	8.05468-01	8.2845E-01
U	4.2062E+01	9.8432E+00	1.0286E+01		4.4889E+01	1.0715E+01	1.1277E+01
SPECIES	,	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	4.9558E-01	5.7526E-01	6.1526E-01	€-	5.2360E-01	6.0169E-01	6.3976E-01
A	1.0198E-01	4.1686E-02	1.9647E-02	A	7.5593E-02	2:5679E-02	1.0648E-02
A+	3.0992E-01	2.0388E-01		A+	2.7957E-01	1.6540E-01	1.0482E-01
A++	9.1931E-02	1.6625E-01	1.9324E-01	A++	1.1970E-01	1.8571E-01	2.0152E-01
A+++	5.9947E-04	1.28346-02	2.7402E-02	A+++	1.5390E-03	2.1205E-02	4.1103E-02
A++++	4.5378E-08	9.2463E-05	7.0604E-04	A++++	3.1523E-07	3.1389E-04	2.1331E-03
AV	3.9910E-14	3.9079E-08	1.6141E-06	AV .	9.9733E-13	3.35266-07	1.2051E-05
AVI	2.4290E-22	7.0952E-13	2.5239E-10	AVI	2.9847E-20	1.9457E-11	5.8031E-09
I I VA	3.5853E-33	3.54116-19	1.8080E-15	IIVA	3.4836E-30	4.0307E-17	1.6231E-13
IIIVA	1.2675E-46	3.4904E-27	4.2331E-22	IIIVA	1.4142E-42	2.1313E-24	1.8661E-19
		· · · · · · · · · · · · · · · · · ·			·•		

P1 = 1.00E+05 N/SQ-M+ US1= 1.65E+04 M/SEC	P1 = 1.00E+05 N/SQ-M, US1= 1.75E+04 M/SEC
. MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK "STANDING SHOCK" REFLECTED SHOCK
P 3.9444E+03 3.2392E+04 5.1024E+04	P 4.4349E+03 3.6026E+04 5.7373E+04
T . 1.7375E+02 2.8709E+02 3.4446E+02	T 1.8588E+02 3.0972E+02, 3.7511E+02
RHO 1.0516E+01 4.3599E+01 5.1737E+01	RHO 1.0464E+01 4.2445E+01 5.0359E+01
H 8.6498E+02 1.5367E+03 1.9424E+03	H 9.7281E+02 1.7257E+03 2.1946E+03
A 1.6763E+01 2.4533E+01 2.8668E+01	A 1.7910E+01 2.6374E+01 3.0939E+01
S 2.0847E+00 2.2186E+00 2.3248E+00	S 2.1512E+00 2.2881E+00 2.4006E+00
2 2.1588E+00 2.5878E+00 2.8631E+00	2 2.2801E+00 2.7404E+00 3.0372E+00
GAME. 7.4916E-01 8.1008E-01 8.3334E-01	GAME 7.5684E-01 8.1952E-01 8.4021E-01
U 4.6262E+01 1.1176E+01 1.1803E+01	U 4.9044E+01 1.2111E+01 1.2848E+01
0 , 4.02.02.2701 1.11/31/01 1.11/032/01	0 4.70440401 1.21110401 1.20400401
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
5 2/205 01 / 12575 01 / 50725 01	5 (1/25 0) (2505 0)
E- 5.3678E-01 6.1357E-01 6.5072E-01	E- 5.6142E-01 6.3509E-01 6.7074E-01
A 6.4266E-02 1.9934E-02 7.7460E-03	A 4.5280E-02 1.1747E-02 4.0410E-03
A+ 2.6346E-01 1.4680E-01 8.8003E-02	A+ 2.3008E-01 1.1236E-01 6.0305E-02
A++ 1.3316E-01 1.9284E-01 2.0140E-01	A++ 1.5834E-01 2.0116E-01 1.9287E-01
A+++ 2.3293E-03 2.6304E-02 4.8612E-02 A++++ 7.5411E-07 5.4220E-04 3.4840E-03	A+++ 4.8809E-03 3.8175E-02 6.3617E-02
7,57116 0 ,5672206 0. 5670706 05	A++++ 3.7209E-06 1.4656E-03 8.2716E-03
AV 4.2975E-12 8.8625E-07 2.9876E-05	AV 6.3705E-11 5.3292E-06 1.5352E-04
AVI 2.6779E-19 8.7499E-11 2.4092E-08:	AVI 1.5660E-17 1.4232E-09 3.1966E-07
AVII 8.0438E-29 3.4606E-16 1.2547E-12	AVII 2.7227E-26 1.8795E-14 5.2103E-11
AVIII 9.9540E-41 3.9158E-23 2.9702E-18	AVIII 2.6828E-37 8.7483E-21 4.6082E-16
P1 = 1.00E+05. N/SQ-M, US1=. 1.70E+04 M/SEC	P1 = 1.00E+05 N/SQ-M, US1= 1.80E+04 M/SEC
united and the state of the sta	
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK
P 4.1862E+03 3.4179E+04 5.4179E+04	P 4.6904E+03 3.7841E+04 6.0625E+04
T 1.7976E+02 2.9821E+02 3.5968E+02	T 1.9211E+02 3.2140E+02 3.9061E+02
RHO 1.0494E+01 4.3022E+01 5.1060E+01	RHD 1.0429E+01 4.1810E+01 4.9676E+01 -
H 29.1811E+02 1.6297E+03 2.0668E+03	H 1.0291E+03 1.8238E+03 2.3268E+03
A 1.7334E+01 2.5442E+01 2.9808E+01	A 1.8490E+01 2.7309E+01 3.2052E+01
S 2.1180E+00 2.2534E+00 2.3628E+00	S 2.1842E+00 2.3225E+00 2.4381E+00
Z 2.2192E+00 2.6641E+00 2.9501E+00	Z 2.3411E+00 2.8160E+00 3.1244E+00
GAME 7.5317E-01 8.1479E-01 8.3736E-01	GAME 7.6015E-01 8.2400E-01 8.4182E-01
U 4.7654E+01 1.1668E+01 1.2331E+01	U 5.0429E+01 1.2607E+01 1.3387E+01
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E- (-40% 005.4939E-010-1/886.2463E-01) (6.6103E-01)	E- 5.7285E-01 6.4488E-01 6.7993E-01
A 5.4170E-02 1.5377E-02 5.6000E-03	A 3.7551E-02 8.9189E-03 2.9257E-03
A+ 2.4691E-01 1.2912E-01 7.3127E-02	A+ 2.1315E-01 9.6932E-02 4.9516E-02
A++ 1.4611E-01 1.9801E-01 1.9845E-01	A++ 1.6966E-01 2.0217E-01 1.8504E-01
A+++ 3.4196E-03 3.1956E-02 5.6244E-02	A+++ 6.7861F-03 4.4783E-02 7.0317E-02
A++++ 1.7150E-06 9.0337E-04 5.4801E-03	A++++ 7.7263E-06 2.3021E-03 1.1953E-02
AV 1.7128E-11 2.2161E-06 6.9947E-05	AV 2.2135E-10 1.2181E-05 3.1441E-04
AVI 2.1544E-18 3.6286E-10 9.2034E-08	
AVII 1.5897E-27 2.6517E-15 8.6402E-12	AVI 1.0350E-16 5.1777E-09 1.0025E-06
	AVI 1.0350E-16 5.1777E-09 1.0025E-06 AVII 4.0684E-25 1.1992E-13 2.7260E-10
AVIII 5.6929E-39 6.1683E-22 4.0459E-17	

P1 - 4	E-00E+05 W/26-W	. 031- 5-005-0	3 H/3EC	P1 + 2	**************************************	. 021= 5.40E+0	3 H/SEC
			•				
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ.	4.7899E+01	8.4637E+01	2.6460E+02	P	6.9069E+01	1.2770E+02	
T	1.2892E+01	1.6278E+01	2.9291E+01	Ť	1.8181E+01	2.3401E+01	3.9988E+01
RHO	3.7155E+00	5.1997E+00	9.03136+00	RHO	3.7990E+00	5.45706+00	9.5746E+00
H	1.2892E+01	1.6278E+01	2.9354E+01	H			
				• • •	1.8181E+01	2.3406E+01	4.1353E+01
<b>A</b>	3.5905E+00	4.0345E+00	5.3779E+00		4.2638E+00	4.8336E+00	5.9836E+00
\$ ,	1.1406E+00		1.1600E+00	S	1.1681E+00	1.1690E+00	1.1875E+00
Z	1.0000E+00	1.0000E+00	1.0002E+00	2	1.0000E+00	1.0000E+00	1.0044E+00
GAME	1.0000E+00	9.999E-01	9.8716E-01	GAME	9.9994E-01	9.9839E-01	8.9140E-01
U	4.5391E+00	3.2320E+00	3.1705E+00	Ü	5.4900E+00	3.8032E+00	3.5860E+00
SPEC IES	S <del></del>	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	********
E-	3.29558-10	4.6170E-08	2.2423E-04	Ę-	4.1875E-07	1.7778E-05	4-4171E-03
A	1.0000E+00	1.0000E+00		A	1.0000E+00	9.9996E-01	9.9117E-01
<b>A+</b>	3.2955E-10	4.6170E-08	2.2423E-04	A+	4.1875E-07	1.7778E-05	4.4171E-03
A++ '	1.8127E-35	9.72958-29	1.9216E-15	A++	3.7004E-25	2.2124E-19	5.3388E-11
A+++	· 1.4677E-76	3.2956E-61	1.2972E-34	A+++	4.2996E-55	2.2464E-43	5-6390E-25
A++++	0.	0.	3.3553E-64	A++++	0.	7.0229E-80	2.3208E-46
AV :	0.	ō.	0.	AV	j.	0.	1-4536E-74
IVA	0.	' O.	0.	IVA	ŏ.	ŏ <b>.</b>	0.
	ŏ.						
AVII		0.	· 0•	AVII	0.	0	0.
AVIII	J.	0.	0.	IIIVA	0.	0.	0.
				-			
	•						
	•		. *				
	,						*
P1 = 2	2.00E+05 N/SQ-N	, US1= 2.20E+0	3 M/SEC	P1 = 2	2.00E+05 N/SQ-H	, US1= 2.60E+0	O3 M/SEC
P1 = 3	2.00E+05 N/SQ-M	, US1= 2.20E+0	3 M/SEC	P1 = 2	2.00E+05 N/SQ-M	. US1= 2.60E+0	3 M/SEC
P1 = 3	-	US1= 2.20E+0	• •	P1 = 2		, US1= 2.60E+0	
P1 = ;	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	MOVING SHOCK 5.8003E+01	STANDING SHOCK 1.0486E+02	REFLECTED SHOCK 3.2333E+02	P	MOVING SHOCK 8.1080E+01	STANDING SHOCK 1.5228E+02	REFLECTED SHOCK
P T	MOVING SHOCK 5.8003E+01 1.5416E+01	STANDING SHOCK 1.0486E+02 1.9658E+01	REFLECTED SHOCK 3-2333E-02 3-4854E+01	P T	MOVING SHOCK 8.1080E+01 2.1183E+01	STANDING SHOCK 1.5228E+02 2.7420E+01	REFLECTED SHOCK 4.4892E+02 4.4493E+01
P T RHD	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00	REFLECTED SHOCK 3-2333E+02 3-4854E+01 9-2643E+00	P T RHO	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00
P T RHO H	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01	REFLECTED SHOCK 3.2333E+02 3.4854E+01 9.2643E+00 3.5240E+01	P T · . RHO H	MDVING SHDCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01
P T RHD	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00	REFLECTED SHOCK 3.2333E+02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00	P T RHD H	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6012E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00	REFLECTED SHOCK 4.8992E+02 4.4493E+01 9.988E+00 4.7776E+01 6.1265E+00
P T RHD H A S	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1548E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00	REFLECTED SHOCK 3.2338E02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00	P T RHO H A S	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6012E+00 1.1804E+00	STANDING SHOCK 1-5228E+02 2-7420E+01 5-5529E+00 2-7456E+01 5-2138E+00 1-1814E+00	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00
P T RHD H A S Z	MOVING SHOCK 5.8003E+01 1.5416E+01 3.762E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.155TE+00 1.0000E+00	REFLECTED SHOCK 3.2333E+02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00	P T RHO H A S Z	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6012E+00 1.1804E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.814E+00 1.0001E+00	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 1.0101E+00
P T RHO H A S Z GAME	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00 1.0000E+00 9.9983E+01	REFLECTED SHOCK 3.2333E+02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E-01	P T RHO H A S Z Game	MOVING SHDCK 8-1080E+01 2-1183E+01 3-8276E+00 2-1184E+01 4-6012E+00 1-1804E+00 1-0000E+00 9-9944E-01	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.1814E+00 1.0001E+00 9.9127E-01	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 1.0101E+00 8.3512E-01
P T RHD H A S Z	MOVING SHOCK 5.8003E+01 1.5416E+01 3.762E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.155TE+00 1.0000E+00	REFLECTED SHOCK 3.2333E+02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00	P T RHO H A S Z	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6012E+00 1.1804E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.814E+00 1.0001E+00	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 1.0101E+00
P T RHO H A S Z GAME U	MOVING SHOCK 5-8003E+01 1-5416E+01 3-7624E+00 1-5416E+01 3-9264E+00 1-1548E+00 1-0000E+00 1-0000E+00 5-0154E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00 1.0000E+00 9.9983E+01	REFLECTED SHOCK 3.2338E02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E-01 3.4211E+00	P T RHO H A S Z Game U	MOVING SHDCK 8-1080E+01 2-1183E+01 3-8276E+00 2-1184E+01 4-6012E+00 1-1804E+00 1-0000E+00 9-994E-01 5-9619E+00	STANDING SHOCK 1.5228E+02 2.74-20E+01 5.5529E+00 2.74-56E+01 5.2138E+00 1.1814E+00 1.0001E+00 9.9127E-01 4.0899E+00	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 1.0101E+00 8.3512E-01 3.7096E+00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 5-8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9224E+00 1.1548E+00 1.0000E+00 5.0154E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00 1.000E+00 9.9983E+01 3.5254E+00	REFLECTED SHOCK 3.2333E+02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E+01 3.4211E+00	P T RHO H A S Z GAME U	MOVING SHOCK 8-1080E+01 2-1183E+01 3-8276E+00 2-1184E+01 4-6012E+00 1-1804E+00 1-0000E+00 9-9944E-01 5-9619E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.1814E+00 1.0001E+00 9.9127E-01 4.0899E+00	REFLECTED SHOCK 4.4892E+02 4.4992E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 1.0101E+00 8.3512E-01 3.7096E+00
P T RHO H A S Z GAME U	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00 1.0000E+00 5.0154E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00 1.000E+00 9.983E-01 3.5254E+00	REFLECTED SHOCK 3.2338e02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E-01 3.4211E+00	P T RHO H A S Z Game U Species	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6012E+00 1.1804E+00 1.0000E+00 9.994E-01 5.9619E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.001E+00 9.9127E-01 4.0899E+00	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 1.0101E+00 8.3512E-01 3.7096E+00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00 5.0154E+00 S	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00 1.0000E+00 9.9983E-01 3.5254E+00	REFLECTED SHOCK 3.2338E+02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E+01 3.4211E+00	P T RHO H A S Z GAME U	MOVING SHOCK 8-1080E+01 2-1183E+01 3-8276E+00 2-1184E+01 4-6012E+00 1-1804E+00 9-9944E-01 5-9619E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.1814E+00 1.0001E+00 9.9127E-01 4.0899E+00	REFLECTED SHOCK
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00 1.0000E+00 5.0154E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00 1.000E+00 9.983E-01 3.5254E+00	REFLECTED SHOCK 3.2338e02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E-01 3.4211E+00	P T RHO H A S Z Game U Species	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6012E+00 1.1804E+00 1.0000E+00 9.994E-01 5.9619E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.001E+00 9.9127E-01 4.0899E+00	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 1.0101E+00 8.3512E-01 3.7096E+00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00 5.0154E+00 S	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00 1.0000E+00 9.9983E+01 3.5254E+00  - MOLE FRACTIONS 1.3224E-06 1.0000E+00 1.3224E-00	REFLECTED SHOCK 3.2338E+02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E-01 3.4211E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHDCK 8-1080E+01 2-1183E+01 3-8276E+00 2-1184E+01 4-6012E+00 1-1804E+00 1-0000E+00 9-9944E-01 5-9619E+00	STANDING SHOCK 1.5228E+02 2.74-20E+01 5.5529E+00 2.74-56E+01 5.2138E+00 1.0001E+00 1.0001E+00 4.0899E+00	REFLECTED SHOCK
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00 1.0000E+00 5.0154E+00 S	STANDING SHOCK 1.0486E*02 1.9658E*01 5.3344E*00 1.9658E*01 4.4334E*00 1.1557E*00 1.0000E*00 9.983E*01 3.5254E*00  - MOLE FRACTIONS 1.3224E-06 1.0000E*00 1.3224E-06 2.9135E-23	REFLECTED SHOCK 3.2338-02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E-01 3.4211E+00  1.3251E-03 9.9735E-01 1.3251E-03 8.5328E-13	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6012E+00 1.1804E+00 1.0000E+00 9.994E-01 5.9619E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.001E+00 9.9127E-01 4.0899E+00  MOLE FRACTIONS 1.3381E-04 9.9973E-01 1.3381E-04 2.3164E-16	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 1.0101E+00 8.3512E-01 3.7096E+00  1.0042E-02 9.7992E-01 1.0042E-02 9.1537E-10
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 5-8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.0000E+00 1.0000E+00 5.0154E+00 S	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00 1.000E+00 1.000E+00 1.3524E+00 1.3224E-06 2.9135E-23 1.1472E-51	REFLECTED SHOCK 3.2332E+02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E+01 3.4211E+00  1.3251E+03 9.9735E+01 1.3251E+03 8.5328E+13 7.2081E+29	P T RHO H A S Z GAME U SPECIES	MOVING SHDCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6012E+00 1.000E+00 9.9944E-01 5.9619E+00 5.0405E-06 9.9999E-01 5.0405E-06 2.3238E-21 1.2515E-47	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.1814E+00 1.0001E+00 9.9127E-01 4.0899E+00	REFLECTED SHOCK  4.4892E+02  4.493E+01  9.9884E+00  4.7776E+01  6.1265E+00  1.0101E+00  8.3512E-01  3.7096E+00  1.0042E-02  9.1992E-01  1.0042E-02  9.1537E-10  2.6870E-22
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00 1.0000E+00 5.0154E+00 S	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00 1.0000E+00 9.9983E-01 3.5254E+00  - MOLE FRACTIONS 1.3224E-06 1.0000E+00 2.9135E-23 1.1472E-51 0.	REFLECTED SHOCK 3.2338-02 3.4854E-01 9.2643E-00 3.5240E-01 5.7583E-00 1.1744E-00 1.0013E-00 9.5008E-01 3.4211E+00	P T RHO H A S Z Game U Species E- A A+ A++ A+++	MOVING SHDCK 8.1080E+01 2.1183E+01 3.0276E+00 2.1184E+01 4.6012E+00 1.1804E+00 1.0000E+00 9.994E-01 5.9619E+00 5.0405E-06 9.9999E-01 5.0405E-06 2.3238E-21 1.2515E-47	STANDING SHOCK 1.5228E+02 2.74-20E+01 5.5529E+00 2.74-56E+01 5.2138E+00 1.1814E+00 1.0001E+00 9.9127E-01 4.0899E+00	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 1.0101E+00 8.3512E-01 3.7096E+00  1.0042E-02 9.7992E-01 1.0042E-02 9.1537E-10 2.6870E-22 1.8201E-41
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00 1.0000E+00 5.0154E+00 S	STANDING SHOCK 1.0486E*02 1.9658E*01 5.3344E*00 1.9658E*01 4.4334E*00 1.1557E*00 1.0000E*00 9.9983E*01 3.5254E*00  - MOLE FRACTIONS 1.3224E*06 2.9135E*23 1.1472E*51 0.0	REFLECTED SHOCK 3.2338-02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E-01 3.4211E+00  1.3251E-03 9.9735E-01 1.3251E-03 8.5328E-13 7.2081E-29 1.6398E-53 5.8978E-86	P T RHO H A S Z GAME U SPECIES E- A A++++++++++++++++++++++++++++++++++	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6012E+00 1.1804E+00 1.0000E+00 9.994E-01 5.9619E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.001E+00 9.9127E-01 4.0899E+00	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 8.3512E-01 3.7096E+00  1.0042E-02 9.7992E-01 1.0042E-02 9.1537E-10 2.6870E-22 1.8201E-41 7.9320E-67
P T RHO H A S C GAME U SPECIE: E-A A+++++ A++++ AVI	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.926E+00 1.0000E+00 1.0000E+00 5.0154E+00 S	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3344E+00 1.9658E+01 4.4334E+00 1.1557E+00 1.0000E+00 9.9983E-01 3.5254E+00	REFLECTED SHOCK 3.2338E02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E-01 3.4211E+00  1.3251E-03 9.9735E-01 1.3251E-03 8.5328E-13 7.2081E-29 1.6398E-53 5.8978E-86 0.	P T RHO H A S GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 8-1080E+01 2-1183E+01 3-8276E+00 2-1184E+01 4-6012E+00 1-1804E+00 1-0000E+00 9-994E-01 5-9619E+00 9-9999E-01 5-0405E-06 2-3238E-21 1-2515E-47 0-	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.1814E+00 1.0001E+00 9.9127E-01 4.0899E+00	REFLECTED SHOCK  4.4892E+02  4.493E+01  9.9884E+00  4.7776E+01  6.1265E+00  1.2001E+00  8.3512E-01  3.7096E+00  1.0042E-02  9.7992E-01  1.0042E-02  9.1537E-10  2.6870E-22  1.8201E-41  7.9320E-67
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1548E+00 1.0000E+00 1.0000E+00 5.0154E+00 S	STANDING SHOCK 1.0486E*02 1.9658E*01 5.3344E*00 1.9658E*01 4.4334E*00 1.1557E*00 1.0000E*00 9.9983E*01 3.5254E*00  - MOLE FRACTIONS 1.3224E*06 2.9135E*23 1.1472E*51 0.0	REFLECTED SHOCK 3.2338-02 3.4854E+01 9.2643E+00 3.5240E+01 5.7583E+00 1.1744E+00 1.0013E+00 9.5008E-01 3.4211E+00  1.3251E-03 9.9735E-01 1.3251E-03 8.5328E-13 7.2081E-29 1.6398E-53 5.8978E-86	P T RHO H A S Z GAME U SPECIES E- A A++++++++++++++++++++++++++++++++++	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6012E+00 1.1804E+00 1.0000E+00 9.994E-01 5.9619E+00	STANDING SHOCK 1.5228E+02 2.7420E+01 5.5529E+00 2.7456E+01 5.2138E+00 1.001E+00 9.9127E-01 4.0899E+00	REFLECTED SHOCK 4.4892E+02 4.4493E+01 9.9884E+00 4.7776E+01 6.1265E+00 1.2001E+00 8.3512E-01 3.7096E+00  1.0042E-02 9.7992E-01 1.0042E-02 9.1537E-10 2.6870E-22 1.8201E-41 7.9320E-67

P1 = 2	.00E+05 N/SQ-M	. US1= 2.80E+0	3 M/SEC	P1 = 7	2.00E+05 N/SQ-M	. US1= 3.20E+0	3 M/SEC
	*	•					
	MONTHS SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
. P	9.4106E+01	1.8060E+02	5.1500E+02	P	1.2328E+02	2.5900E+02	6.5965E+02
Ť	2.4423E+01	3.1763E+01	4.8176E+01	T	3.1468E+01	4.0892E+01	5.4172E+01
RHO	3.8531E+00	5.6821E+00	1.0505E+01	RHD	3.9146E+00	6.2924E+00	1.1753E+01
H	2.4433E+01	3.1952E+01	5.43178+01	н	3.1675E+01	4.2906E+01	6.8246€+01
Ä	4.9343E+00	5.5489E+00	6.2432E+00	Ä	5.5149E+00	5.9699E+00	6.47195+00
ŝ	1.1920E+00	1.1931E+00	1.2118E+00	ŝ	1.2132E+00	1.2150E+00	1.2355E+00
ž	1.0000E+00	1.0007E+00	1.0176E+00	ž	1.0007E+00	1.0066E+00	1.0361E+00
GAME	9.9688E-01	9.6874E-01	7.9504E-01	GAME	9.6578E-01	8.6585E-01	7.4625E-01
טאחב	6.4365E+90	4.3440E+00	3.7462E+00	U	7.3965E+00	4.5840E+00	3.7183E+00
•	00 13030100	1031102100	3001022100	_			
SPECIES		- MOLE FRACTIONS	·	SPECIE	s	- MOLE FRACTIONS	
_				_			
E-	3.7653E-05	6.7448E-04	1.7328E-02	Ę-	7.3754E-04	6.5362E-03	3-4850E-02
Ą	9.9992E-01	9.9865E-01		Α	9.98526-01	9.8693E-01	9.3030E-01
A+	3.7653E-05	6.7448E-04	1.7328E-02	A+	7.3754E-04	6.5362E-03	3-4850E-02
A++	2.2652E-18	6.0200E-14	6.2185E-09	A++	6.2353E-14	1.5205E-10	7.7835E-08
A+++	2.2657E-41	1.7265E-31	1.7544E-20	A+++	1.3406E-31	4.0862E-24	
A++++	1.4517E-75	1.9580E-58	3.8341E-38	A++++	1.6309E-59	6.12456-45	9.9112E-34
AV	0.	. 0.	1.5136E-61	AV	<b>9.</b>	1.6844E-72	1.4821E-54
AVI	. J.	. 0 •	4.2286E-91	IVA	٥.	0.	5.7308E-81
AVII	0.	0.	0.	ILVA	Q.	ō•	0.
IIIVA	0.	0.	0.	IIIVA	0.	0.	0.
				•	*		
							•
	•		•		•		•
P1 = 2	.00E+05 N/SQ-M	, US1= 3.00E+0	3 M/SEC	P1 = 2	2.00E+05 N/SQ-M	. US1= 3.40E+0	3 M/SEC
		,			•	•	
	MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.0813E+02	2.1495E+02	5.8431E+02	P	1.3976E+02	3.1606E+02	7.4602E+02
Ť	2.7872E+01	3.6324E+01	5.1350E+01	T	3.5084E+01	4.5207E+01	5.6790E+01
RHO	3.8788E+00	5.9031E+00	1.1086E+01	RHO	3.9751E+00	6.8967E+00	1.2553E+01
Н	2.7926E+01	3.7036E+01	6.1104E+01	. н	3.5702E+01	4.9660E+01	7.5904E+01
Ä	5.2479E+00	5.7987E+00	6.3572E+00	A	5.7121E+00	6.1125E+00	6.5887E+00
ŝ	1.2029E+00	1.2042E+00	1.2236E+00	S	1.2231E+00	1.2256E+00	1-2476E+00
ž	1.0002E+00	1.0024E+00	1.0264E+00	Z	1.0022E+00	1.0137E+00	1.0464E+00
GAME	9.8788E-01	9.2343E-01	7.6676E-01	GAME	9.2801E-01	8.1528E-01	7.3049E-01
U	6.9125E+00	4.5222E+30	3.7433E+00	Ü	7.8999E+00	4.5315E+00	3.6834E+00
•	00,12,22,00	10322210	30.14332.100	_			
SPECIES		- MOLE FRACTIONS		SPEC IE	s	- MOLE FRACTIONS	
							1
E-	1.9413E-04	53 2.4348E-03	2.5759E-02	E-	2.1497E-03	1.3552E-02	4.4386E-C2
A	9.9961E-01	9.9513E-01	9-4848E-01	A.	9.9570E-01	9.7290E-01	9-1123E-01
A+	1.9413E-04	2.4348E-03	2.5759E-02	A+	2.1497E-03	1.3552E-02	4.4386E-02
A++	6.4329E-16	4.9649E-12	2.5694E-08	A++	2.4604E-12	1.9843E-09	1.9434E-07
A+++	7.0858E-36	2.4085E-27	3.9286E-19	A+++	4.1418E-28	1.1243E-21	3.4562E-17
A++++			1.1343E-35	A++++	2.3288E-52	1.8847E-40	4.1608E-32
	1.0664E-66	7.2742E-51					
AV	0.	6.9184E-82	1.2617E-57	AV	2.7779E-84	2.49456-65	5.6533E-52
AV AVI		6.9184E-82 0.		IVA	0.	0.	3.2808E-77
AV IVA IVA	0. 3. 0.	6.9184E-82 0. 0.	1.2617E-57 2.1610E-85 0.	IVA IIVA	0. J.	0. 0.	3.2808E-77 0.
AV AVI	0. 0.	6.9184E-82 0.	1.2617E-57 2.1610E-85	IVA	0.	0.	3.2808E-77

P1 = 3	2.00E+05 N/SQ-M	. USI= 3.60E+D	3 M/SEC	P1 = 2	.00E+05 N/SQ-M	. US1= 4.00E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ.	1.5782E+02	3.8497E+02	8.4918E+02	₽	1.9908E+02	5.7044E+02	1-1226E+03
Ť	3.8555E+01	4.9051E+01	5.9304E+01	T	4.4641E+01	5.5727E+01	6-4196E+01
RHD	4.0730E+30	7.6694E+00	1.3543E+01	RHO	4.3910E+00	9.7775E+00	1.6195E+01
H.	4.0028E+01	5.7087E+01	8.4226E+01	н	4.9605E+01	7.4093E+01	1.0311E+02
Ä	5 84 75 E+00	6.2535E+00	6.7086E+00	Ä	6.0508E+00	6.5459E+00	6.9562E+00
ŝ	1.2326E+00	1.2363E+00	1.2600E+00	S ·	1.2514E+00	1.2588E+00	1.2859E+00
ž	1.0050E+00	1.0233E+00	1.0573E+00	Ž	1.0156E+00	1.0469E+00	1.0798E+00
GAME	8.8247E-01	7.79078-01	7.1776E-01	GAME	8.0751E-01	7.3445E-01	6.9803E-01
Ü	8.4320E+00	4.4635E+00		υ	9.5857E+00	4.2920E+00	3.5795E+00
- •		•					
			:				
SPECIE	s <del></del>	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E	4.9613E-03	- 2.2803E-02	5.4207E-02	E-	1.5404E-02	4.4824E-02	7.3933E-02
Ā	9.9008E-01	9.5439E-01	8.9159E-01	Α `	9.6919E-01	9.1035E-01	8.5214E-01
A+	4.9613E-03	2.2803E-02	5.4207E-02	A+	1.5404E-02	4.4823E-02	7.3929E-02
A++ .	4.3580E-11	1.2976E-08	4.2664E-07	A++	2.2551E-09	1.6864E-07	1.5804E-06
A+++	2.0316E-25	7.0279E-20	2.0201E-16	A+++	1.1050E-21	2.1649E-17	4.0045E-15
A++++	1.5999E-47	3.7899E-37	1.0832E-30	A++++	1.3166E-40	1.5113E-32	2.7618E-28
AV .	1.7572E-77	4.4933E-60	1.0469E-49	AV	1.0548E-65	1.01696-52	7.5743E-46
AVI	0.	4.3863E-89	7.6245E-74	AVI	0.	2.7757E-78	3.7296E-68
AVII '	0.	0.	· 0.	IIVA	0.	0.	0.
AVIII	0.	0.	0.	IIIVA	0.	0.	0.
			•				
21 =	2.00F+05 N/S0-N		. ,	P1 = 2	2.00F+05 N/S0-M	. US1= 4.20F40	3 M/SEC
P1 =	2.00E+05 N/SQ-N	. US1= 3.80E+0	D3 M/SEC	P1 = 2	2.00E+05 N/SQ-N	, US1= 4.20E+0	3 M/SEC
P1 =				P1 = 2			
, .	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
p' '.	MDVING SHOCK 1.7759E+02	STANDING SHOCK 4.7010E+02	REFLECTED SHOCK 9.7377E+02	P1 = 2	MOVING SHOCK 2.2222E+02	STANDING SHOCK 6.9030E+02	REFLECTED SHOCK 1.2952E+03
P	MDVING SHOCK 1.7759E+02 4.1761E+01	STANDING SHOCK 4.7010E+02 5.2553E+01	REFLECTED SHOCK 9-7377E+02 6-1767E+01	P	MOVING SHOCK 2.2222E+02 4.7274E+01	STANDING SHOCK 6.9030E+02 5.8700E+01	REFLECTED SHOCK 1.2952E+03 6.6593E+01
P T RHO	MDVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01	P · T	MOVING SHOCK 2.2222E+02 4.7274E+01 4.5939E+00	STANDING SHOCK 6.9030E+02	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.7827E+01
P T RHO H	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01	P T RHO	MDVING SHOCK 2-2222E+02 4-7274E+01 4-5939E+00 5-4839E+01	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.7827E+01 1.1362E+02
P T RHO H	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00	Р Т RHO H	MOVING SHOCK 2.2222E+02 4.7274E+01 4.5939E+00	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.7827E+01
P T RHO H	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.2421E+00	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00	P T RHO H	MDVING SHDCK 2-2222E+02 4-7274E+01 4-5939E+00 5-4839E+01 6-1520E+00	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.6911E+00	REFLECTED SHOCK 1-2952E+03 6-6593E+01 1-7827E+01 1-1362E+02 7-0821E+00 1-2997E+00
P T RHO H	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00	P T RHO H A S	MOVING SHOCK 2.2222E+02 4.7274E+01 4.5939E+00 5.4839E+01 6.1520E+00 1.2612E+00	STANDING SHOCK 6-9030E+02 5-8700E+01 1-1098E+01 8-3610E+01 6-6911E+00 1-2707E+00	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.782Te+01 1.1362E+02 7.0821E+00
P T RHO H A S	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.466E+01 5.9527E+00 1.2421E+00 1.0095E+00	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00 1.3347E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.0710E-01	P T RHO H A S Z	MOVING SHOCK 2.2222E+02 4.7274E+01 4.5939E+00 5.4839E+01 6.1520E+00 1.2612E+00	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.6911E+00 1.2707E+00 1.0596E+00	REFLECTED SHOCK 1-2952E+03 6-6593E+01 1-7827E+01 1-1362E+02 7-0821E+00 1-2997E+00 1-0911E+00
P T RHO H A S Z GAME	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.2421E+00 1.0095E+00 8.4051E-01 8.9954E+00	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.400E+00 1.2474E+00 1.0347E+00 7.5327E-01	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.0710E-01 3.6112E+00	P T RHO H A S Z GAME	MOVING SHOCK 2-222ZE+02 4-7274E+01 4-5939E+00 5-4839E+01 6-152E+00 1-261ZE+00 1-023ZE+00 7-8241E-01 1-0195E+01	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.991E+00 1.2707E+00 1.0596E+00 7.1979E-01	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.7827E+01 1.1362E+02 7.0821E+00 1.2997E+00 1.0911E+00 6.9031E-01 3.5504E+00
P T RHO H A S Z GAME U	MDVING SHDCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.2421E+00 1.0095E+00 8.4051E-01 8.9954E+00	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00 1.0347E+00 7.5327E-01 4.3639E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.0710E-01 3.6112E+00	P T RHD H A S Z Game U	MOVING SHOCK 2-222ZE+02 4-7274E+01 4-5939E+00 5-4839E+01 6-152E+00 1-261ZE+00 1-023ZE+00 7-8241E-01 1-0195E+01	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.991E+00 1.2707E+00 1.0596E+00 7.1979E-01 4.1992E+00	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.7827E+01 1.1362E+02 7.0821E+00 1.2997E+00 1.0911E+00 6.9031E-01 3.5504E+00
P T RHO H A S GAME U	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.2421E+00 1.0095E+00 8.405E+01 8.9954E+00 S	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.400GE+00 1.2474E+00 1.0347E+00 7.5327E-01 4.3639E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.0710E-01 3.6112E+00	P T RHO H A S Z GAME U	MOVING SHOCK 2-2222E+02 4-7274E+01 4-5939E+00 5-4839E+01 6-1520E+00 1-2612E+30 1-0232E+00 7-8241E-01 1-0195E+01	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.991E+00 1.2707E+00 1.2707E+00 4.1992E+00 - MOLE FRACTIONS	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.7827E+01 1.1362E+02 7.0821E+00 1.2997E+00 1.0911E+00 6.9031E-01 3.5504E+00
P T RHO H A S GAME U	MDVING SHDCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.2421E+00 1.0095E+00 8.4051E-01 8.9954E+00	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00 1.0347E+00 7.5327E-01 4.3639E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.0710E-01 3.6112E+00	P T RHD H A S Z GAME U SPECIES	MOVING SHOCK 2-222ZE+02 4-7274E+01 4-5939E+00 5-4839E+01 6-1520E+00 1-2612E+30 1-023ZE+00 7-8241E-01 1-0195E+01	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.6911E+00 1.2707E+00 1.0596E+00 7.1979E-01 4.1992E+00	REFLECTED SHOCK 1-2952E+03 6-6593E+01 1-7827E+01 1-1362E+02 7-0821E+00 1-2997E+00 1-0911E+00 3-5504E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.466E+01 5.9527E+00 1.2421E+00 8.4051E-01 8.9954E+00 S	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00 7.5327E-01 4.3639E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.0710E-01 3.6112E+00	PTRHOHAAS SZGAMEU SPECIES E-A	MOVING SHOCK 2.222E+02 4.7274E+01 4.5939E+00 5.4839E+01 6.1520E+00 1.2612E+00 1.0232E+00 7.8241E-01 1.0195E+01	STANDING SHOCK 6-9030E+02 5-8700E+01 1-1098E+01 8-3610E+01 6-991E+00 1-2707E+00 7-1979E-01 4-1992E+00	REFLECTED SHOCK 1-2952E+03 6-6593E+01 1-7827E+01 1-1362E+02 7-0821E+00 1-2997E+00 1-0911E+00 6-9031E-01 3-5504E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.0095E+00 8.4051E-01 8.9954E+00  S 9.4336E-03 9.8113E-01 9.4336E-03 4.0423E-10	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00 1.0347E+00 7.5327E-01 4.3639E+00  - MOLE FRACTIONS 3.3539E-02 9.3292E-01 3.3539E-02	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.0710E-01 3.6112E+00	P T RHD H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 2-2222E+02 4-7274E+01 4-5939E+00 5-4839E+01 6-1520E+00 1-2612E+00 1-0232E+00 7-8241E-01 1-0195E+01	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.991E+00 1.2707E+00 1.0596E+00 7.1979E-01 4.1992E+00  - MOLE FRACTIONS5.6264E-02 8.8747E-01 5.626E-02	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.7827E+01 1.1362E+02 7.0821E+00 1.2997E+00 1.0911E+00 6.9031E-01 3.5504E+00
P T RHO H A S Z GAME U SPECIE	MDVING SHDCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.2421E+00 1.0095E+00 8.4051E-01 8.9954E+00 S	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00 1.0347E+00 7.5327E-01 4.3639E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.071.0E-01 3.6112E+00  6.4127E-02 8.7175E-01 6.4125E-02 8.5251E-07	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 2-222ZE+02 4-7274E+01 4-5939E+00 5-4839E+01 6-1520E+00 1-2612E+30 1-023ZE+00 7-8241E-01 1-0195E+01	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.691E+00 1.2707E+00 1.0596E+00 7.1979E-01 4.1992E+00  - MOLE FRACTIONS5.6264E-02 8.8747E-01 5.6263E-02 4.2404E-07	REFLECTED SHOCK 1-2952E+03 6-6593E+01 1-7827E+01 1-1362E+02 7-0821E+00 1-2997E+00 1-0911E+00 6-9031E-01 3-5504E+00  8-3478E-02 8-3305E-01 8-3472E-02 2-7547E-06
P T RHO H A S Z GAME U SPECIE E- A A++ A++	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.0095E+00 8.4051E-01 8.9954E+00  S 9.4336E-03 9.8113E-01 9.4336E-03 4.0423E-10	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00 7.5327E-01 4.3639E+00	REFLECTED SHOCK 9.737 TE+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.272 TE+00 1.0685E+00 7.0710E-01 3.6112E+00  6.4127E-02 8.7175E-01 6.4125E-02 8.5251E-07 9.7232E-16	P T RHU H A S Z GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 2.2222E+02 4.7274E+01 4.5939E+00 5.4839E+01 6.1520E+00 1.0232E+00 7.8241E-01 1.0195E+01  2.2716E-02 9.5457E-01 2.2716E-02 8.9614E-09 2.2551E-20	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.6911E+00 1.2707E+00 1.0596E+00 7.1979E-01 4.1992E+00  - MOLE FRACTIONS - 5.6264E-02 8.8747E-01 5.6263E-02 4.2404E-07 1.7560E-16	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.7827E+01 1.1362E+02 7.0821E+00 1.2997E+00 1.0911E+C0 6.9031E-01 3.5504E+00  8.3478E-02 8.3472E-02 2.7547E-06 1.4498E-14
P T RHO H A S Z GAME U SPECIE E-A A+A++++	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.0095E+00 8.4051E-01 8.9954E+00  S 9.4336E-03 9.8113E-01 9.4336E-03 4.0423E-10 2.5879E-23 1.2758E-43	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00 1.0347E+00 7.5327E-01 4.3639E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.0710E-01 3.6112E+00  6.4127E-02 8.7175E-01 6.4125E-02 8.5251E-07 9.7232E-16 1.9942E-29	P T RHD H A S Z GAME U SPECIES E- A A+ A+++	MOVING SHOCK 2-222ZE+02 4-7274E+01 4-5939E+00 5-4839E+01 6-1520E+00 1-2612E+00 1-0232E+00 1-0195E+01 3-2-2716E-02 9-55457E-01 2-2716E-02 8-9614E-09 2-2551E-20 3-2693E-38	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.991E+00 1.2707E+00 1.0596E+00 7.1979E-01 4.1992E+00  - MOLE FRACTIONS5.6264E-02 8.874TE-01 5.6263E-02 4.2404E-07 1.7560E-16 7.3412E-31	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.7827E+01 1.1362E+02 7.0821E+00 1.2997E+00 1.0911E+00 6.9031E-01 3.5504E+00  8.3478E-02 8.3305E-01 8.3472E-02 2.7547E-06 1.4498E-14 3.0315E-27
P T RHO H A S Z GAME U SPECIE E-A A+++++++++++++++++++++++++++++++++	MOVING SHOCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.02421E+00 1.0095E+00 8.4051E-01 8.9954E+00  S 9.4336E-03 9.8113E-01 9.4336E-03 4.0423E-10 2.5879E-23 1.2758E-43	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00 1.0347E+00 7.5327E-01 4.3639E+00 9.3292E-01 3.3539E-02 9.3292E-01 3.3539E-02 5.4763E-08 1.7295E-18 1.4040E-34 5.722ZE-56	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.0710E-01 3.6112E+00  6.4127E-02 8.7175E-01 6.4125E-02 8.5251E-07 9.7232E-16 1.9942E-29 1.1253E-47	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 2-222ZE+02 4-7274E+01 4-5939E+00 5-4839E+01 6-1520E+00 1-261ZE+00 1-023ZE+00 1-0195E+01  2-2716E-02 9-5457E-01 2-2716E-02 8-9614E-09 2-2551E-20 3-2693E-38 6-2920E-62	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.6911E+00 1.2707E+00 1.0596E+00 7.1979E-01 4.1992E+00  - MOLE FRACTIONS .5.6264E-02 8.8747E-01 5.6263E-02 4.2404E-07 1.7560E-16 7.3412E-31 5.0513E-53	REFLECTED SHOCK 1-2952E+03 6-6593E+01 1-7827E+01 1-1362E+02 7-0821E+00 1-2997E+00 1-0911E+00 6-9031E-01 3-5504E+00   8-3478E-02 8-3405E-01 8-3472E-02 2-7547E-06 1-4498E-14 3-0315E-27 3-5410E-44
P T RHO H A S GAME U SPECIE E-A A+++++++++++++++++++++++++++++++++	MDVING SHDCK 1.7759E+02 4.1761E+01 4.2125E+00 4.4664E+01 5.9527E+00 1.2421E+00 1.0095E+00 8.4051E-01 8.9954E+00 S	STANDING SHOCK 4.7010E+02 5.2553E+01 8.6453E+00 6.5289E+01 6.4000E+00 1.2474E+00 1.0347E+00 7.5327E-01 4.3639E+00	REFLECTED SHOCK 9.7377E+02 6.1767E+01 1.4754E+01 9.3293E+01 6.8314E+00 1.2727E+00 1.0685E+00 7.0710E-01 3.6112E+00  6.4127E-02 8.7175E-01 6.4125E-02 8.5251E-07 9.7232E-16 1.9942E-29 1.1253E-47 7.7540E-71	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 2:2222E+02 4:7274E+01 4:5939E+00 5:4839E+01 6:1520E+00 1:2612E+30 1:0232E+00 1:0195E+01  2:2716E-02 9:5457E-01 2:2716E-02 8:9614E-09 2:2551E-20 3:2693E-38 6:2920E-62 4:6059E-92	STANDING SHOCK 6.9030E+02 5.8700E+01 1.1098E+01 8.3610E+01 6.6911E+00 1.2707E+00 1.2707E+00 1.41992E+00  - MOLE FRACTIONS - 5.6264E-02 8.8747E-01 5.6263E-02 4.2404E-07 1.7560E-16 7.3412E-31 5.0513E-50 2.4525E-74	REFLECTED SHOCK 1.2952E+03 6.6593E+01 1.7827E+01 1.1362E+02 7.0821E+00 1.2997E+00 1.0911E+00 6.9031E-01 3.5504E+00  8.3478E-02 8.3478E-02 2.7547E-06 1.4498E-14 3.0315E-27 3.5410E-44 1.0620E-65

#### TARIF" L. - Continued

PI = 2	2.00E+05 N/SQ-H	I, US1= 4.40E+0	3 M/SEC	P1 *	2.00E+05 N/SQ-N	I, US1= 4.80E+0	3 M/SEC
•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MUNING SHUCK	STANDING SHOCK	REFLECTED SHOCK
p.	2.46918+02	8.2730E+02	1.4934E+03	Р	3.0065E+02	1.1621E+03	1.9662E+03
T	4.96486+01			ŕ	5.3845E+01	6.6659E+01	7.3712E+01
RHD		6.1472E+01	6.8969E+01	RHO	5.3111E+00	1.5897E+01	2.3744E+01
	4.81976+00	1.2552E+01	. 1.9646E+01			1.1544E+02	
H	6.03526+01	9.3652E+01	1.2479E+02	H	7.2186E+01		1.4895E+02
A	6.2553€+00	6.8318E+00	7.2093E+00		6-4649E+00	7.1048E+00	7.4698E+00
S	1.27108+00	1.2833E+00	1.3139E+00	Š	1.2914E+00	1.3101E+00	1.3440E+00
ζ	1.03198+00	1.0722E+00	1.1021E+00	l 2	1.0513E+00	1.0966E+00	1.1234E+00
GAME	7.63818-01	7.0813E-01	6.8376E-01	GAME	7.3832E-01	6.9053E-01	6.7382E-01
Ű,	1.08188+01	4.1393E+00	3.5254E+C0	υ	. 1.2084E+01	4.0305E+00	3.4871E+00
SPEC IE	·	- MOLE FRACTIONS		SPEC 1E	s <del></del> -	- MOLE FRACTIONS	
E-	3.0870E-02	6.7361E-02	9.2654E-02	E-	4.87938-02	8.8119E-02	1.0985E-01
A	9.3826E-01	8.6528E-01	8-1470E-01	A	9.0242E-01	8.2377E-01	7.8031E-01
A+	3-08705-02	6.7359E-02	9.2645E-02	A+	4.8790E-02	8.8113E-02	1.0983E-01
A++	2-71635-08	9.1153E-07	4.5676E-06	A++	1.4907E-07	3.1287E-06	1.1253E-05
A+++	2.5830E-19	1.0148E-15	4.7240E-14	A+++	1.1200E-17	1.7856E-14	3.9729E-13
A++++	2.8913E-36	1.9159E-29	2.7451E-26	A++++	2.9822E-33	4.0875E-27	1-4696E-24
AV	8.1277E-59	9.283LE-48	1.2157E-42	AV	5.3100E-54	5.2653E-44	7.3104E-40
AVI	2.0934E-87	4.8412E-71	1.9068E-63	AVI	2.62725-80	1.7511E-65	2.3371E-59
IIVA	J.	0.	2.7014E-92	IIVA	0.	3.5988E-94	2.8506E-85
IIIVA	0.	. 0 .	0.	IIIVA	0.	0.	0.
		,	• '				
				•			•
P1 = :	2.00E+05 N/SY-H	I. USI= 4.60E+0	O3 M/SEC	P1 =	2.00E+05 N/SQ-	i. US1= 5.00E+(	D3 M/SEC
					•		· ·
			REFLECTED SHOCK			STANDING SHOCK	
P	2.73076+02	9.8429E+02	1.7168F+03	Р	3.2959E+02	1.3630E+03	2.2419E+03
T .	5.18256+01	6.4114E+01 ·	7.1337E+01	· •	5.5739E+01	6.9149E+01	7.6117E+01
RHO	5.0602E+00	1.4155E+01	2.1625E+01	RHD	5.5691E+00	1.7786E+01	2.5980E+01
н	6.6137E+01	1.0427E+02	1.3657E+02	Н	7.8496E+01	1.2719E+02	1.6191E+02
A	6.3600E+30	6.9695E+00	7.3382E+00	A	6.5693E+00	7.2393E+00	7.6057E+00
S	1.2810E+00	1.2964E+00	1.3287E+00	S	1.3020E+00	1.3244E+00	1.3599E+00
Z	1.0413E+00	1.0846E+00	1.1129E+00	Z	1.0618E+00	1.1083E+00	1.1337E+00
GAME	7.4957E-01	6.9853E-01	6.7828E-01	GAME	7.2919E-01	6.8385E-01	6.7034E-01
· U	1.1449E+01	4.0827E+00	3.5041E+00	U	1.2721E+01	3.9685E+00	3.475 Œ +00
SPECIE	s - <del></del>	- MOLE FRACTIONS		SPEC 1E	s	- HOLE FRACTIONS	
E-	3.96346-02	7.8007E-02	1.0144E-01	E-	5.8182E-02	9.7692E-02	1.1793E-01
Ā .	9.2073E-01	8.43998-01	7.9713E-01	A	8.8364E-01	8.0462E-01	7.6415E-01
A+	3.9634E-02	7.8004E-02	1.0142E-01	A+	5.8181E-02	9.7682E-02	1.1790E-01
A++	6.8205E-08	1.7582E-06	7-2794E-06	A++	2.9323E-07	5.2472E-06	1.7007E-05
A+++	1.9695E-18	4.6445E-15	1,4152E-13 ···	A+++	5.0426E-17	6.0333E-14	1.0627E-12
A++++	1.19366-34	3.2774E-28	2.1322E-25	A++++	4.6673E-32	4.0006E-26	
AV	2.8612E-56	8.9013E-46	3.2757E-41	ÄV	3.9739E-52	· 2.0736E-42	1.4091E-38
AVI	7.8690E-84	3.9836E-68	2,4136E-61	ĀVI	1.1456E-77	3. 92 326-63	
AVII	0.	0.	3.7558E-88	ÄVII	0.	3.55498-92	1.5573E-82
AVIII	0.	0.	0.	JIIVA	0.	0.	0.
	•	•	•	*****		•	••

# $p_1 = 200 \text{ kN/m}^2$

P1 -	4.00E+03 N/SW-m	• 031- 3-206+0	3 17320	P1 = 2	**************************************	• 021= 2.00F+0	3 M/SEC
* *			2551 56752 44524				
_	HOVING SHOCK			_	MOVING SHOCK		
P	3.5988E+02	1.5839E+03	2-5448E+03	P	4.2437E+02	2.0960E+03	3.2328E+03
Ţ	5.7532E+01	7.1587E+01	7.8574E+01	Ť	6.0889E+01	7.6462E+01	8.3736E+01
RHD	5.8318E+00	1.9764E+01	2.8315E+01	RHO	6.3647E+00	2.4025E+01	3.3169E+01
Н	8.5063E+01	1.3940E+02	1.7544E+02	. н	9.8963E+01	1.6537E+02	2.0407E+02
Α '	6.6729E+00	7.3733E+00	7.7476E+00	A	6.8777E+00	7.6488E+00	8.0574E+00
\$ '	L.3129E+00	1.3392E+00	1.3762E+00	S	1.3357E+00	1.3705E+00	1.4100E+00
Z	1.0726E+00	1.1195E+00	1.1438E+00	Z	1.0950E+00	1.1409E+00	1.1639E+00
GAME	7.2157E-01	6.7838E-01	6.6786E-01	GAME '	7.0945E-01	6.7062E-01	6.6612E-01
U	1.3359E+01	3.9322E+00	3.4683E+00	įυ	1.4634E+01	3.8661E+00	3.4569E+00
	•				•		
SPECIE	s	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	. 6.7694E-02	1.0673E-01	1.2576E-01	E- ·	8.6790E-02	1.2353E-01	1-4085E-01
Α .	8.6461E-01	7.8654E-01	7-4851E-01	<b>A</b>	8.2642E-01	7.5295E-01	7.1836E-01
A+	6.7693E-02	. 1.0672E-01.	1.2571E-01	A+	8.6787E-02	1.23508-01	1-4074E-01
A++	5.3207E-07	8.3936E-06	2.5308E-05	\ A++	1.4660E-06	1.9620E-05	5.4556E-05
A+++	1.9167E-16	1.8356E-13	2.7494E-12	A+++	1.8796E-15	1.3937E-12	1-7395E-11
A++++	5.5139E-31	3.2151E-25	5.4597E-23	A++++	3.7077E-29	1.4346E-23	1-6985E-21
AV	2.1362E-50	5.9222E-41	2.4333E-37	ÄV	1.7600E-47	2.6767E-38	6.0072E-35
ÄVI	4.7803E-75	5.41328-61	1.1904E-55	IVA	8.9059E-71	4.3923E-57	3-8284E-52
IIVA	0.	1.1235E-87	6.4462E-80	IIVA	0.	5.1452E-82	7.1588E-75
JIIVA	. 0.	0.	0.	IIIVA	0.	0.	0. 1.1200c-12.
*****	. 0 •	0.	0.	AVIII	0.	0.	0.
P1 =	2+00E+05 N/SQ-M	. US1= 5.40E+0	3 M/SEC	P1 = 2	2.00E+05 N/SQ-N	. US1 = 5.80E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P.	3.9148E+02	1.8276E+03	2.8758E+03	.P	4.5854E+02	2.3861E+03	3.6228E+03
, T .	5.9243E+01	. ~ 7.4014E+01	8.1113E+01	τ	6.2482E+01	7.8944E+01	8.6547E+01
RHD.	6.0975E+00	2.1845E+01	3.0724E+01	RHO	6.6322E+00	2.6252E+01	3.5645E+01
H	9.1885E+01	1.5212E+02	1.8955E+02	H	1.0629E+02	1.7908E+02	2.1941E+02
Α ·	6.7757E+00	7.5092E+00	7.8979E+00	Ā	6.9793E+00	7.7938E+00	8.2339E+00
S	1.3241E+00	1.3546E+00	1.3930E+00	S	1.3475E+00	1.3868E+00	1.4277E+00
Ž	1.0837E+00	1.1304E+00	1.1539E+00	ž	1.1065E+00	1.1513E+00	1.1743E+00
GAME	7.1507E-01	6.7399E-01	6.6642F-01	GAME	7.0453E-01	6.6831E-01	6.6708E-01
Ü	1.39976+01	3.9008E+00	3.4679E+00	U	1.5270E+01	3.8498E+00	3.4769E+00
		20,0002.00	30 401 70 100	· ·	1.32102.01	3.04702.00	3241072100
SPECIE	s	- MOLE FRACTIONS		SPEC IE	s	: - MOLE FRACTIONS	
E-	7 73405 47	1.1533E-01	1-3340E-01	E-	9.6279E-02	1.3145E-01	1.4844E-01
A .	7.7249E-02						
A+	8.4550E-01	7.69365-01	7.3324E-01	· A	8.0744E-01	7.3713E-01	7.03216-01
	7.7247E-02	1.1530E-01	1.33336-01	A+	9.6274E-02	1.3139E-01	1.4828E-C1
A++	9.0591E-07	1.2986E-05	3.7311E-05	A++	2-2771E-06	2.9127E-05	8.0368E05
A+++	6.3430E-16	5.1909E-13	6.9766E-12	A+++	5.0967E-15	3.5977E-12	4-4183E-11
A++++	5.0132E-30	2.2563E-24	3.0994E-22	A++++	2.3301E-28	8.4511E-23	9.5942E-21
AV	7.2700E-49	·1.3654E-39	3.9366E-36	AV	3.29088-46	4.6250E-37	9.5812E-34
AVI	8.4878E-73	5.5136E-59	7.0447E-54	AVI	6.4273E-69	2.8920E-55	2-2136E-50
IIVA		5.5136E-59 9.1704E-85	7•0447E-54 2•2763E-77	AVI IIVA	6.4273E-69 0.	2.8920E-55 2.1710E-79	2-2136E-50 2-4646E-72
	8.4878E-73						

P1 * 2	-00E+05 N/SQ-M	. US1= 6.00E+0	D3 M/SEC	P1. = 2	2.00E+05 N/SQ-M	, US 6.40E+0	3 M/SEC
							•
•						ATTANCE CHOCK	
_	MOVING SHOCK	STANDING SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	4.9399E+02	2.6974E+03	4.0438E+03	P	5.6899E+02	3.3988E+03 8.6967E+01	7.44005+01
T	6.4034E+01	8.1486E+01	8.9558E+01	T	6.7059E+01	3.3043E+01	4. 2817E+01
RHO	6.8991E+03	2.8496E+01	3.8102E+01	RHO	7.4308E+00	2.23185+02	2.6946E+02
н	1.1388E+02	1.9324E+02	2.3537E+02	Ħ	1.2982E+02	8.2904E+00	8.9018E+00
A	7.0806E+00	7.9464E+00	8.4295E+00	A	7.2841E+00'	1.4382E+00	1.4828E+90
S	1.3595E+00	1.4035E+00	1.4457E+00	ş	1:3845E+00		1:2585€+00
2	1.1182E+00	1.1617E+00	1.1850E+00	Z	1.1419E+00	1.1828E+00	6.7988E-01
GAME	7.0018E-01	6.6708E-01	6.6952E-01	GAME	6.9292E-01	6.6820E-01 3.8779E+00	3.6032E+00
u ·	1.5904E+01	3.8560E+00	3.5065E+00	u	1.7179E+01	3.01146400	3.00322.000
SPEC IES		- MOLE FRACTIONS	;· · .	SPECIES	·	- MOLE FRACTIONS	
_				•	1 36365-01	1.5452E-01	1.72526-01
E-	1.0569E-01	1.3916E-01	1.5615E-01	E-	1.2424E-01 7.5153E-01	6.9105E-01	6.5524E-01
A A+	7.8862E-01	7. 21 71E-01	6.8782E-01	A A+	1.2423E-01	1.5434E-01	1.7197E-01
	1.0568E-01	1.3908E-01	1.5591E-01		7.1444E-06	9.2073E-05	2.7332E-04
A++	3.4204E-06	4.2768E-05	1.1919E-04	A++	6.9275E-14	5.7424E-11	8.4208E-10
A+++ A++++	1.28586-14	9.0591E-12	1.1413E-10	A++++	2.86815-26	1.4677E-20	2.2211 E-18
AV	1.2835E-27	4.7352E-22	5.5683E-20	AV	7.1017E-43	1.7877E-33	5.61 00E-30
	5.0010E-45	7.3420E-36	1.5902E-32	· IVA	4.8756E-64	5.2376E-50	7.0504E-45
AVI	3.4450E-67	1.6727E-53 7.5282E-77	1.3544E-48	AVII	2.4002E-92	8. 0145E-72	1.9165E-64
AVIII	0. 0.	0.	9.2038E-70	AVIII	0.	0.	5.4804E-88
AVIII	0.	0.	3.5879E-95	-,	••	•	,
		,	£ .				
P1 = 2	-00E+05 N/SQ-M	. US1= 6.20E+0	3 M/SEC	P1 = 2	2.00E+05 N/SQ-M	. US ;≝60E+0 :/	13 M/SEC
P		STANDING SHOCK	DEEL CLIED CHOCK		MOVING SHOCK	STA JIN SHOCK	REFLECTED SHOCK
	MOVING SHOCK	STANDING SHOCK			MOVING SHOCK	STA IN SHOCK	REFLECTED SHOCK 5.5098E+03
	5.3109E+02	3.0400E+03	4.5051E+03	P	6.0813E+02	3. / C48E+03	5.5098E+03
Ŧ	5.3109E+02 6.5561E+01	3.0400E+03 8.4164E+01	4.5051E+03 9.2863E+01	P T	6.0813E+02 6.8541E+01	3.7648E+03 8.9898E+01	5.5098E+03 1.0041E+02
T RHD	5.3109E+02 6.5561E+01 7.1689E+00	3.0400E+03 8.4164E+01 3.0817E+01	4.5051E+03 9.2863E+01 4.0549E+01	P T RHD	6.0813E+02 6.854LE+01 7.6893E+00	3.7648E+03 8.9898E+01 3.5280E+01	5.5098E+03 1.0041E+02 4.4918E+01
T RHD H	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02	P T RHD H	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02	3.7648E+03 8.9898E+01 3.5280E+01 2.3882E+02	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02
T RHD H A	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00	P T RHD	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00	3.7.48E+03 8.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00	5.5098E+03 1.0041E+02 4.4918E+01
T RHD H A S	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00 1.4206E+00	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.4642E+00	P T RHO H A	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30	3.7648E+03 8.9898E+01 3.5280E+01 2.3882E+02	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00
T RHD H A S Z	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 1.1300E+00	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00 1.4206E+00 1.1721E+00	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.4642E+00 1.1964E+00	P T RHO H S S	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30 1.1539E+00	3./48E+03 8.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.1934E+00	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1.5016E+00
T RHD H A S	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00 1.4206E+00	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.4642E+00	P T RHO H A S	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30	3.7648E+03 8.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1.5016E+00 1.2216E+00
T RHD H A S Z Game	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 1.1300E+00 6.9632E-01	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00 1.4206E+00 1.1721E+00 6.6698E-01	4.50518+03 9.28638+01 4.05498+01 2.52188+02 8.65188+00 1.46428+00 1.19648+00 6.73738-01	P T RHO H A S Z GAME U	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30 1.1539E+00 6.899E-01 1.7806E+01	3./C48E+03 3.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.7936E+00 6.7078E-01 3.8852E+00	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1.5016E+00 1.2216E+00 6.8819E-01 3.6740E+00
T RHD H A S Z Game	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 1.1300E+00 6.9632E-01 1.6550E+01	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00 1.4206E+00 1.1721E+00 6.6698E-01	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.46642E+00 1.1964E+00 6.7373E-01	P T RHD H A S Z Game	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30 1.1539E+00 6.899E-01 1.7806E+01	3./C48E+03 3.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.1934E+00 6.7078E-01 3.8852E+00	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1.5016E+00 1.2216E+00 6.8819E+01 3.6740E+00
T RHD H A S Z GAME	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 1.1300E+00 6.9632E-01 1.6550E+01	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00 1.4206E+00 1.1721E+00 6.6698E-01 3.8616E+00	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.46642E+00 1.1964E+00 6.7373E-01	PTRHOHAASZGAMEU	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30 1.1539E+00 6.8992E-01 1.7806E+01	3.748E+03 3.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.1934E+00 6.7078E-01 3.8852E+00	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1.5016E+00 1.2216E+00 6.8819E-01 3.6740E+00
T RHD H A S C GAME . U SPECIES	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 6.9632E-01 1.6550E+01	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00 1.4206E+00 6.6698E-01 3.8616E+00  - MOLE FRACTIONS 1.4681E-01 7.0645E-01	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.4642E+00 1.1964E+00 6.7373E-01 3.5475E+00	PTRMOHAASZGAMEU	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+00 6.8992E-01 1.7806E+01	3./ C48E+03 3.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.1934E+00 6.7078E-01 3.8852E+00 - MOLE FRACTIONS 1.6203E-01 6.7607E-01	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1.5016E+00 6.8819E-01 3.6740E+00
T RHD H A S Z GAME .U SPECIES E-A A+	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 6.9632E-01 1.6550E+01 1.1502E-01 7.6996E-01 1.1501E-01	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00 1.4206E+00 1.1721E+00 6.6698E-01 3.8616E+00	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.4642E+00 1.1964E+00 6.7373E-01 3.5475E+00	PTRHOHASSZGAMEU	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30 1.1539E+00 6.8992E-01 1.7806E+01	3./C48E+03 d.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.1934E+00 6.7078E-01 3.8852E+00  - MOLE FRACTIONS 1.6203E-01 6.7607E-01 1.6176E-01	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1.5016E+00 1.2216E+00 6.8819E-01 3.6740E+00
T RHD H A S Z GAME . U SPECIES E A A A A + A + A S S S S S S S S S S S S	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 6.9632E-01 1.6550E+01 1.502E-01 7.6996E-01 1.1501E-01 5.0030E-06	3.0400E+03 8.4164E+01 2.0806E+02 8.1114E+00 1.4206E+00 1.1721E+00 6.6698E-01 3.8616E+00  - MOLE FRACTIONS 1.4681E-01 7.0645E-01 1.4668E-01 6.2745E-05	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.46642E+00 1.1964E+00 6.7373E-01 3.5475E+00  1.6417E-01 6.7185E-01 1.6381E-01 1.7953E-04	PTRHOHAS SCAME U SPECIES E-AA+A++	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30 1.1539E+00 6.8992E-01 1.7806E+01	3./C48E+03 3.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.1934E+00 6.7078E-01 3.8852E+00  - MOLE FRACTIONS 1.6203E-01 6.7607E-01 1.6176E-01 1.3452E-04	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1.5016E+00 1.2216E+00 6.8819E-01 3.6740E+00
T RHD H A S Z GAME . U SPECIES E A A + A + A + + A + + + A + + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 6.9632E-01 1.6550E+01 1.502E-01 7.6996E-01 1.1501E-01 5.0030E-06 3.0637E-14	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00 1.4206E+00 1.1721E+00 6.6698E-01 3.8616E+00  - MOLE FRACTIONS 1.4681E-01 7.0645E-01 1.4668E-01 6.2745E-05 2.2813E-11	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.4642E+00 1.1964E+00 6.7373E-01 3.5475E+00  1.6417E-01 6.7185E-01 1.6381E-01 1.7953E-04 3.0609E-10	PTRMOHAASZGAMEUSPECIESEAAA+AA++AA++	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+00 6.8992E-01 1.7806E+01 5 	3./ C48E+03 3.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 6.7078E-01 3.8852E+00 - MOLE FRACTIONS 1.6203E-01 6.7607E-01 1.3452E-04 1.4336E-10	5. 5098E+03 1. 0041E+02 4. 4918E+01 2. 8746E+02 9. 1878E+00 1. 5016E+00 1. 2216E+00 6. 8819E-01 3. 6740E+00 
T RHD H A S Z GAME . U SPECIES E A A + A + + A + + + A + + + + + + + +	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 6.9632E-01 1.6550E+01 1.502E-01 7.6996E-01 1.1501E-01 5.0030E-06 3.0637E-14 6.3696E-27	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.1114E+00 1.4206E+00 1.1721E+00 6.6698E-01 3.8616E+00  - MOLE FRACTIONS 1.4681E-01 7.0645E-01 1.4668E-01 6.2745E-05 2.2813E-11 2.6446E-21	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.4642E+00 1.1964E+00 6.7373E-01 3.5475E+00  1.6417E-01 6.7185E-01 1.6381E-01 1.7953E-04 3.0609E-10 3.4425E-19	P T RHO H A S Z GAME U SPECIES E- A A++ A+++ A++++	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30 1.1539E+00 6.8992E-01 1.7806E+01 5 	3./C48E+03 3.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.1934E+00 6.7078E-01 3.8852E+00  - MOLE FRACTIONS 1.6203E-01 6.7607E-01 1.6176E-01 1.3452E-04 1.4336E-10 8.0001E-20	5. 5098E+03 1. 0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1. 5016E+00 1. 2216E+00 6. 8819E-01 3. 6740E+00  1.8140E-01 6.3762E-01 1.8056E-01 4.2342E-04 2.4160E-09 1.5394E-17
T RHD H A S Z GAME . U SPECIES E-A A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 6.963ZE-01 1.6550E+01 1.50ZE-01 7.6996E-01 1.150IE-01 5.0030E-06 3.0637E-14 6.3696E-27 6.4428E-44	3.0400E+03 8.4164E+01 2.0806E+02 8.1114E+00 1.4206E+00 1.1721E+00 6.6698E-01 3.8616E+00  - MOLE FRACTIONS 1.4681E-01 7.0645E-01 1.4668E-01 6.2745E-05 2.2813E-11 2.6446E-21 1.1539E-34	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.4642E+00 1.1964E+00 6.7373E-01 3.5475E+00  1.6417E-01 6.7185E-01 1.6381E-01 1.7953E-04 3.0609E-10 3.4425E-19 2.8889E-31	P T RMO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV++ AV	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30 1.1539E+00 6.8992E-01 1.7806E+01 5 	3.748E+03 3.989E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.1934E+00 6.7078E-01 3.8852E+00  - MOLE FRACTIONS 1.6203E-01 6.7607E-01 1.6176E-01 1.3452E-04 1.4336E-10 8.0001E-20 2.6898E-32	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1.5016E+00 6.8819E+01 3.6740E+00  1.8140E+01 6.3762E+01 1.8055E+01 4.2342E+04 2.4160E+09 1.5394E+17 1.2107E+28
T RHD H A S Z GAME . U SPECIES E A A + + + A + + + + A + + + + A V I	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 1.3709E+01 1.6550E+01 1.6550E+01 1.1502E-01 7.6996E-01 1.1501E-01 5.0030E-06 3.0637E-14 6.3696E-27 6.428E-44 1.4535E-65	3.0400E+03 8.4164E+01 3.0817E+01 2.0806E+02 8.11114E+00 1.4206E+00 1.1721E+00 6.6698E-01 3.8616E+00  - MOLE FRACTIONS 1.4681E-01 7.0645E-01 6.2745E-05 2.2813E-11 2.6446E-21 1.1539E-34 9.4652E-52	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.4642E+00 1.1964E+00 6.7373E-01 3.5475E+00  1.6417E-01 6.7185E-01 1.6381E-01 1.7953E-04 3.0609E-10 3.4425E-19 2.8889E-31 9.2752E-47	P T RHO H A S Z GAME U SPECIES A A + A + A + A + A A V A V A V A V I	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30 1.1539E+01 1.7806E+01 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3./C48E+03 3.9898E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.1934E+00 6.7078E-01 3.8852E+00  - MOLE FRACTIONS 1.6203E-01 6.7607E-01 1.6176E-01 1.3452E-04 1.4336E-10 8.0001E-20 2.6808E-32 2.7496E-88	5. 5098E+03 1. 0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1. 5016E+00 1. 2216E+00 6.8819E-01 3.6740E+00  1.8140E-01 6.3762E-01 1.8055E-01 4.2342E-04 2.4160E-09 1.5394E-17 1.2107E-28 6.1698E-43
T RHD H A S Z GAME . U SPECIES E-A A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A	5.3109E+02 6.5561E+01 7.1689E+00 1.2174E+02 7.1823E+00 1.3719E+00 6.963ZE-01 1.6550E+01 1.50ZE-01 7.6996E-01 1.150IE-01 5.0030E-06 3.0637E-14 6.3696E-27 6.4428E-44	3.0400E+03 8.4164E+01 2.0806E+02 8.1114E+00 1.4206E+00 1.1721E+00 6.6698E-01 3.8616E+00  - MOLE FRACTIONS 1.4681E-01 7.0645E-01 1.4668E-01 6.2745E-05 2.2813E-11 2.6446E-21 1.1539E-34	4.5051E+03 9.2863E+01 4.0549E+01 2.5218E+02 8.6518E+00 1.4642E+00 1.1964E+00 6.7373E-01 3.5475E+00  1.6417E-01 6.7185E-01 1.6381E-01 1.7953E-04 3.0609E-10 3.4425E-19 2.8889E-31	P T RMO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV++ AV	6.0813E+02 6.8541E+01 7.6893E+00 1.3816E+02 7.3868E+00 1.3974E+30 1.1539E+00 6.8992E-01 1.7806E+01 5 	3.748E+03 3.989E+01 3.5280E+01 2.3882E+02 8.4830E+00 1.4555E+00 1.1934E+00 6.7078E-01 3.8852E+00  - MOLE FRACTIONS 1.6203E-01 6.7607E-01 1.6176E-01 1.3452E-04 1.4336E-10 8.0001E-20 2.6898E-32	5.5098E+03 1.0041E+02 4.4918E+01 2.8746E+02 9.1878E+00 1.5016E+00 6.8819E-01 3.6740E+00   1.8140E-01 6.3762E-01 1.8055E-01 4.2342E-04 2.4160E-09 1.5394E-17 1.2107E-28

P1 = 1	P1 = 2.00E+05 N/SQ-M, US1= 6.80E+03 M/SEC				P1 = 2.00E+05 N/SQ-M, US1= 7.20E+03 M/SEC				
	MOVENS SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		
P	6.4851E+02	4.1889E+03	6.0656E+03	Р	7.3292E+02	5.0568E+03	7-28548+03		
Ť	7.0017E+01	9.3056E+01	1.0489E+02	ī	7.2972E+01	1.0017E+02	1.1515E+02		
RHO	7.9436E+00	3.7368E+01	4.6774E+01	RHO	8.4357E+00	4.1060E+01	4.9817E+01		
H .	1.4676E+02	2.5487E+02	3.0629E+02	H	1.6470E+02	2.8830E+02	3.4634E+02		
Ä	7.4907E+00	8.6987E+00	9.51878+00	Ä	7.7045E+00	9.2099E+00			
Š	1.4105E+00	1.4731E+00	1.52098+00	Š	1.4375E+00	1.5086E+00	1.0274E+01 1.5586E+00		
ž	1.1660E+00	1.2047E+00	1.2363E+00	. 3	1.1906E+00	1.2294E+00	1.2700E+00		
GAME	6.8731E-01	6.7499E~01	6.9869E-01	GAME	6.8321E-01	6.8874E-01	7.2182E-01		
U	1.8432E+01	3.9233E+00	3.7671E+00	U	1.9677E+01	4.0479E+00	4.0079E+00		
·	100.311.01			· ·	20,000		4400172400		
SPEC IE	s	- MOLE FRACTIONS		SPEC I	ES	- MOLE FRACTIONS			
E-	1.42366-01	1.6989E-01	1.9116E-01	E-	1.6010E-01	1.8661E-01	2-1260E-01		
A	7.1529E-01	6.6042E-01	6.1834E-01	Ā	6.7982E-01	6.2723E-01	5.7649E-01		
A+	1.42346-01	1.6949E-01	1.89826-01	A+	1.6005E-01	1.8572E-01	2.0920E-01		
A++	1.3813E-05	1.9876E-04	6.7167E-04	A++	2.5358E-05	4.4716E-04	1.6999E-03		
A+++	3.1560E-13	3.6708E-10	7.3414E-09	A+++	1.2862E-12	2.5852E-09	6.9662E-08		
A++++	4.6899E-25	4.5387E-19	1.1795E-16	A++++	6.2294E-24	1.6432E-17			
AV	6.0801E-41	4-2492E-31	3.0439E-27	AV	3.7151E-39	1.2699E-28	2.0730E-24		
AVI	3.2337E-61	1.54776-46	6-6893E-41	IVA	1.2889E-58	6.2567E-43	8-7573E-37		
AVII	2.7307E-88	7.5377E-67	8-9167E-59	IIVA	1.3721E-84	1.0753E-61	6.3422E-53		
IIIVA	0.	2.8443E-91	2.3594E-80	AVIII	0.	2.6054E-84	1.7633E-72		
P1 =	2.00E+05 N/SU-M		3 M/SEC	, P1 =	2.00E+05 N/SQ-M	. US1= 7.40E+0	3 M/SEC		
		AND:					0.551.553.50.5110.64		
_		STANDING SHOCK		_	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		
P	6.9010E+02	4.6136E+03	6.6622E+03	. ρ	7.7693E+02	5.5175E+03	7.9511E+03		
Ţ	7.1491E+01	9.6468E+01	1.09825+02	Ţ	7.4466E+01	1.04216+02	1.2096E+02		
RHO	8.1927E+00	3.9310E+01	4.8437E+01	RHD	8.6717E+00	4.2588E+01	5.0966E+01		
H	1.5560E+02	2.7137E+02	3.2615E+02	H	1.7405E+02	3.0567E+02	3.6766E+02 1.0683E+01		
Α -	7.5965E+00	:38,9398E+00							
S			9.8849E+00	A	7.8152E+00	9.5104E+00			
ž.	1.4239E+00	1.4909E+00	1.5399E+00	S	1.4513E+00	1.5263E+00	1.5776E+00		
GAME	1.1782E+00	7 1.4909E+00 1.2166E+00	1.5399E+00 1.2524E+00	S Z	1.4513E+00 1.2031E+00	1.5263E+00 1.2433E+00	1.5776E+00 1.2898E+00		
	1.1782E+00 6.8507E-01	1.4909E+00 1.2166E+00 6.8096E-01	1.5399E+00 1.2524E+00 7.1041E-01	S Z GAME	1.4513E+00 1.2031E+00 6.8172E-01	1.5263E+00 1.2433E+00 6.9813E-01	1.5776E+00 1.2898E+00 7.3158E-01		
υ,	1.1782E+00	7 1.4909E+00 1.2166E+00	1.5399E+00 1.2524E+00	S Z	1.4513E+00 1.2031E+00	1.5263E+00 1.2433E+00	1.5776E+00 1.2898E+00		
SPECIE	1.1782E+00 0.8507E-01 1.9056E+01	1.4909E+00 1.2166E+00 6.8096E-01	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00	S Z GAME	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01	1.5263E+00 1.2433E+00 6.9813E-01	1.5776E+00 1.2898E+00 7.3158E-01 4.1599E+00		
SPEC IE	1.1782E+00 6.8507E-01 1.9056E+01	1.4909E+00 1.2166E+00 6.8096E-01 3.9765E+00	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00	S Z GAME U SPEC II	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01	1.5263E+00 1.2433E+00 6.9813E-01 4.1361E+00	1.5776E+00 1.2898E+00 7.3158E-01 4.1599E+00		
SPECIE	1.1782E+00 6.8507E-01 1.9056E+01 S	1.4909E+00 1.2166E+00 6.8096E-01 3.9765E+00 - MOLE FRACTIONS 1.7805E-01	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00	S Z GAME U	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01	1.5263E+00 1.2433E+00 6.9813E-01 4.1361E+00	1.5776E+00 1.2898E+00 7.3158E-01 4.1599E+00		
SPECIE E- A	1.1782E+00 6.8507E-01 1.9056E+01 S	1.4909E+00 1.2166E+00 6.8096E-01 3.9765E+00 - MOLE FRACTIONS 1.7805E-01 6.4420E-01	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00	S Z GAME U SPEC II E- A	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01	1.5263E+00 1.2433E+01 6.9813E+01 4.1361E+00 - MOLE FRACTIONS 1.9567E+01 6.0935E+01	1.5776E+00 1.2898E+00 7.3158E-01 4.1599E+00		
SPECIE E- A	1.1782E+00 6.8507E-01 1.9056E+01 S	1.4909E+00 1.2166E+00 6.8096E-01 3.9765E+00 - MOLE FRACTIONS 1.7805E-01 6.4420E-01 1.7745E-01	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00 	S Z GAME U SPEC II E- A A+	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01 ES	1.5263E+00 1.2433F+00 6.9813E-01 4.1361E+00 - MOLE FRACTIONS 1.9567E-01 6.0935E-01 1.9431E-01	1.5776E+00 1.2898E+00 7.3158E+01 4.1599E+00 		
SPECIE E- A A+ A++	1.1782E+00 6.8507E-01 1.9056E+01 S	1.4909E+00 1.2166E+00 6.8096E+01 3.9765E+00 - MOLE FRACTIONS 1.7805E-01 6.4420E-01 1.7745E-01 2.9658E-04	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00 	S Z GAME U SPEC II E- A A+ A++	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01 ES	1.5263E+00 1.2433F+00 6.9813E-01 4.1361E+00 - MOLE FRACTIONS 1.9567E-01 6.0935E-01 1.9431E-01 6.8020E-04	1.5776E+00 1.2898E+00 7.3158E-01 4.1599E+00 		
SPECIE E- A A+ A++	1.1782E+00 6.8507E-01 1.9056E+01 S	1.4909E+00 1.2166E+00 6.8096E-01 3.9765E+00 - MOLE FRACTIONS 1.7805E-01 6.4420E-01 1.7745E-01 2.9658E-04 9.6209E-10	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00 	S Z GAME U SPEC II E- A A+ A++ A++	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01 ES	1.5263E+00 1.2433E+01 6.9813E-01 4.1361E+00  - MOLE FRACTIONS 1.9567E-01 6.0935E-01 1.9431E-01 6.8020E-04 7.1008E-09	1.5776E+00 1.289E+00 7.3158E-01 4.1599E+00 		
SPECIE E- A A+ A++ A+++	1.1782E+00 6.8507E-01 1.9056E+01 S	1.4909E+00 1.2166E+00 6.8096E-01 3.9765E+00 - MOLE FRACTIONS 1.7805E-01 6.4420E-01 1.7745E-01 2.9658E-04 9.6209E-10 2.6759E-18	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00 	S Z Z GAME U  SPEC II  E- A A+ A++ A+++	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01 ES	1.5263E+00 1.2433F+00 6.9813E-01 4.1361E+00 - MOLE FRACTIONS 1.9567E-01 6.0935E-01 1.9431E-01 6.8020E-04	1.5776E+00 1.2898E+00 7.3158E-01 4.1599E+00 		
SPECIE E- A A+ A++ A++ A+++ AV	1.1782E+00 6.8507E-01 1.9056E+01 S 1.5128E-01 6.9746E-01 1.5124E-01 1.8814E-05 6.4430E-13 1.7452E-24 4.9135E-40	1.4909E+00 1.2166E-01 3.9765E+00 3.9765E+00 - MOLE FRACTIONS 1.7805E-01 6.4420E-01 1.7745E-01 2.9658E-04 9.6209E-10 2.6759E-18 7.1351E-30	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00 	S Z GAME U  SPEC II  E- A A+ A++ A+++ A+++	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01 ES	1.5263E+00 1.2433F+00 6.9813E-01 4.1361E+00  - MOLE FRACTIONS 1.9567E-01 6.0935E-01 1.9431E-01 6.8020E-04 7.1008E-09 1.046E-16	1.5776E+00 1.2898E+00 7.3158E+01 4.1599E+00 2.2467E-01 5.5334E-01 2.1932E-01 2.6733E-03 2.1084E-07 5.5507E-14		
SPECIE E- A A+ A++ A++ A+++ AV	1.1782E+00 6.8507E-01 1.9056E+01 S	1.4909E+00 1.2166E+00 6.8096E-01 3.9765E+00 - MOLE FRACTIONS 1.7805E-01 6.4420E-01 1.7745E-01 2.9658E-04 9.6209E-10 2.6759E-18 7.1351E-30 9.4731E-45	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00  2.0154E-01 5.9799E-01 1.9940E-01 1.0721E-03 2.2740E-08 9.3511E-16 8.0639E-26 7.8122E-39	S Z Z GAME U  SPEC II  E- A A+ A++ A+++	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01 ES	1.5263E+00 1.2433F+00 6.9813E-01 4.1361E+00  - MOLE FRACTIONS  1.9567E-01 6.0935E-01 1.9431E-01 6.8020E-04 7.1008E-09 1.0464E-16 2.3820E-27	1.5776E+00 1.2898E+00 7.3158E-01 4.1599E+00 2.2467E-01 5.5334E-01 2.1932E-01 2.6733E-03 2.1084E-07 5.5507E-14 5.1855E-23		
SPECIE E- A A+ A++ A++ A+++ AV	1.1782E+00 6.8507E-01 1.9056E+01 S 1.5128E-01 6.9746E-01 1.5124E-01 1.8814E-05 6.4430E-13 1.7452E-24 4.9135E-40	1.4909E+00 1.2166E-01 3.9765E+00 3.9765E+00 - MOLE FRACTIONS 1.7805E-01 6.4420E-01 1.7745E-01 2.9658E-04 9.6209E-10 2.6759E-18 7.1351E-30	1.5399E+00 1.2524E+00 7.1041E-01 3.8970E+00 	S Z GAME U  SPEC II  E- A A+ A++ A+++ A+++ AV AVI	1.4513E+00 1.2031E+00 6.8172E-01 2.0297E+01 ES	1.5263E+00 1.2433F+00 6.9813E-01 4.1361E+00  - MOLE FRACTIONS 1.9567E-01 6.0935E-01 1.9431E-01 6.8020E-04 7.1008E-09 1.0464E-16 2.3820E-27 4.4306E-41	1.5776E+00 1.2898E+00 7.3158E-01 4.1599E+00 2.2467E-01 5.5334E-01 2.1932E-01 2.6733E-03 2.1084E-07 5.5507E-14 5.1855E-23 9.4479E-35		

P1 = 2.00E+05 N/Su-M, US1= 7.60E+03 M/SEC	P1 = 2.00E+05 N/SQ-M, US1= 8.00E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK 8.6497E+03 T .7.5980E+01 1.0863E+02 1.2700E+02 RHD 8.8996E+00 4.3824E+01 5.1943E+01 H .1.8366E+02 3.2343E+02 3.8968E+02 A 7.9293E+00 1.5964E+00 1.5964E+00 2 1.2158E+00 1.2586E+00 1.3112E+00 GAME 6.8062E-01 7.0862E-01 7.3851E-01 U 2.0914E+01 4.2491E+00 4.3196E+00	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 9.1605E+02 6.9794E+03 1.0137E+04 1 7.9095E+01 1.816E+02 1.3914E+02 RHO 9.3268E+00 4.5714E+01 5.3659E+01 H 2.0362E+02 3.6020E+02 4.3567E+02 A 8.1704E+00 1.0540E+01 1.1870E+01 5 1.4937E+00 1.5782E+00 1.6330E+00 Z 1.2418E+00 1.2921E+00 1.3577E+00 GAME 6.7968E-01 7.2769E-01 7.4580E-01 U 2.2141E+01 4.5231E+00 4.6509E+00
SPECIES MOLE FRACTIONS	SPECIES, MOLE FRACTIONS
E- 1.7751E-01 2.0548E-01 2.3734E-01 A 6.4502E-01 5.9009E-01 5.2938E-01 A 1.7742E-01 2.0339E-01 2.2921E-01 A 6.4699E-05 1.0450E-03 4.0669E-03 A 6.8780E-12 1.9997E-08 5.9486E-07 A 6.8780E-12 1.9997E-08 5.9486E-07 A 6.8780E-12 1.9997E-08 3.7529E-13 AV 1.8374E-37 4.7675E-26 1.0766E-21 AVI 3.8104E-56 3.4445E-39 7.8225E-33 AVII 4.6974E-81 2.2599E-56 2.5708E-47 AVIII 0. 3.7947E-77 6.1496E-65	E- 1.9469E-01 2.2606E-01 2.6347E-01 A 6.1070E-01 5.5024E-01 4.8126E-01 A+ 1.9453E-01 2.2134E-01 2.4708E-01 A+ 7.8231E-05 2.3622E-03 8.1896E-03 A++ 7.7710E-22 2.6159E-14 1.0051E-11 AV 7.9964E-36 1.4807E-23 2.0386E-19 AVI 9.3910E-54 1.4357E-35 1.6630E-29 AVII 1.2867E-77 3.1136E-51 1.3646E-42 AVIII 0. 3.0754E-70 1.4143E-58
P1 = 2.00E+05 N/SU-M, US1= 7.80E+03 M/SEC	P1 = 2.006+05 N/SQ-M, US1= 8.20E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 8.6851E+02 6.4789E+03 9.3801E+03 T 7.7520E+01 1.1325E+02 1.3303E+02 RHO 9.1184E+00 4.4882E+01 5.2878E+01 H 1.9351E+02 3.4161E+02 4.1240E+02 A 8.0475E+00 1.0186E+01 1.1480E+01 S 1.4794E+00 1.5612E+00 1.6146E+00 Z 1.2287E+00 1.2746E+00 1.3335E+00 GAME 6.7993E-01 7.1876E-01 7.4288E-01 U 2.1528E+01 4.3803E+00 4.4871E+00	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   9.6523E+02   7.5017E+03   1.0934E+04   T   8.0717E+01   1.2330E+02   1.4505E+02   RHO   9.5282E+00   4.6413E+01   5.4539E+01   H   2.1400E+02   3.7940E+02   4.5979E+02   A   8.2992E+00   1.0896E+01   1.2247E+01   S   1.5081E+00   1.5951E+00   1.6505E+00   2   1.2550E+00   1.3109E+00   1.3821E+00   GAME   6.7990E-01   7.3460E-01   7.4814E-01   U   2.2762E+01   4.6781E+00   4.8171E+00
SPECIES MOLE FRACTIONS	SPECIES
E- 1.8612E-01 2.1546E-01 2.5009E-01 A 6.2781E-01 5.7065E-01 5.0570E-01 A+ 1.8600E-01 2.1230E-01 2.3833E-01 A++ 5.9432E-05 1.57197E-03 5.8802E-03 A++ 9.3380E-12 5.4422E-08 1.4998E-06 A+++ 2.3881E-22 4.3458E-15 2.0855E-12 AV 1.2264E-36 8.6521E-25 1.6524E-20 AVI 6.0882E-55 2.3204E-37 4.2108E-31 AVII 2.5203E-79 8.9438E-54 7.3707E-45 AVIII 3. 1.1820E-73 1.2482E-61	E- 2.0322E-01 2.3717E-01 2.7647E-01: A 5.9367E-01 5.2913E-01 4.5772E-01 A+ 2.0301E-01 2.3024E-01 2.5477E-01 A+ 1.0280E-04 3.4607E-03 1.0838E-02 A++ 3.3665E-11 3.7035E-07 7.2019E-06 A+++ 2.5155E-21 1.4650E-13 3.9543E-11 AV 5.1678E-35 2.2699E-22 1.8390E-18 AVI 1.4311E-52 7.6102E-34 4.2025E-28 AVII 6.4964E-76 8.7185E-49 1.3475E-40 AVIII 9. 6.0275E-67 6.9274E-56

## $\rho_1$ = 200 kN/m²

P1 = 2	2.00E+05 N/SQ-M	. US1= 8.40E+0	3 M/SEC	Pî	= 2.00E+05 N/SQ-	4, US1= 8.80E+0	3 M/SEC
						4	
		CTANDING CHOCK	DEEL COTED CHOCK		HOWENC CHOCK	STANDING CHOCK	
•	. 1.0149E+03	8.0191E+03	REFLECTED SHOCK	P	MOVING SHOCK 1.1171E+03	STANDING SHOCK 9-0723E+03	REFLECTED SHOCK 1.3370E+04
	8.2382E+01	1.2841E+02	1.50846+02	Ť	8.5897E+01	1.3851E+02	1.6205E+02
RHO	9.7107E+00	4.6934E+01	5.5253E+01	RHO	1.0030E+01	. 4.7724E+01	5.6456E+01
H	2.2460E+02	3.9874E+02	4.8414E+02	H	2.4654E+02	4.3854E+02	5.3432E+02
<b>.</b>	8.4340E+00	1.1239E+01	1.2623E+01	Ä	8.7267E+00	1.1895E+01	1.3378E+01
	1.52278+00	1.6116E+00	1.6679E+00	Š	1.5522E+00	1.6439E+00	1.7021E+00
ž	1.2686E+30	1.3306E+00	1.4077E+00	ž	1-2966E+00.	1.3725E+00	1.4615E+00
GAME	6.8063E-01	7.3924E-01	7.5043E-01	GAM!		7.4432E-01	7.5573E-01
Ü	2.3363E+01	4.8392E+00	4.9817E+00	Ü	2.4550E+01	5.1644E+00	5.3090E+00
					, -		,
SPEC IE:	s	- MOLE FRACTIONS		SPE	:IES	MOLE FRACTIONS	;
E-	2.1173E-01	2.4844E-01	2.8963E-01	E-	2.28756-01	2.7139E-01	3.1576E-01
A 1	5.7668E-01	5.0800E-01	4.3461E-01	<u> </u>	5.4272E-01	4.6598E-01	3.8927E-01
A+	2.1146E-01	2.3867E-01	2.6190E-01	A+	2.2829E-01	2.5387E-01	2.7421E-01
A++	1.3488E-04	4.8839E-03	1.3847E-02	A++	2.32525-04	8.7533E-03	2.0713E-02
A+++	6.3663E-11	8.69756-07	1.3714E-05	A+++	2.2914E-10	3.7893E-06	4.0407E-05
A++++ '	8.0910E-21	7.0698E-13	1.3443E-10			1.0892E-11	1.0760E-09
AV	3.3044E-34	2.7600E-21	1.3217E-17	AV AVI .	1.3545E-32	2.1549E-19	3.8566E-16
AVI	2.1501E-51	2.8911E-32	7.6646E-27			1.6768E-29	
AVII	3.2309E-74	1.51695-46	8.3769E-39	AVII		1 - 2638E-42	1.0176E-35
ITIVA	0.	6.2067E-64	1.8230E-53	AVIII	i ).	1.1710E-58	2.6757E-49
		. ,			•		
						•	
			* •			1	
			•			•	•
01 -	2 00F.06 N/50-M		3 M/65r		- 3 005 05 1450		
P1 = 3	2.00E+05 N/SQ-M	. US1= 8.60E+0	3 M/SEC	: P1	= 2.00E+05 N/SQ-	1, US1= 9.00E+0	3 M/SEC
P1 = ;	2.00E+05 N/SQ-M	, US1= 8.60E+0	3 M/SEC	P1	= 2.00E+05 N/SQ-	1, US1= 9.00E+0	D3 M/SEC
P1 = 1	2.00E+05 N/SQ-M	STANDING SHOCK	REFLECTED SHOCK	: P1		4, US1= 9.00E+0	,
P1 = :				P1			REFLECTED SHOCK
P1 = ;	"HOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK 9.6205E+03	REFLECTED SHOCK 1-4220E+04
P1 = ; P T RHO	"MOVING SHOCK 1.0656E+03	STANDING SHOCK 8.5481E+03	REFLECTED SHOCK 1.2548E+04	P	MOVING SHOCK 1.1704E+03	STANDING SHOCK	REFLECTED SHDCK 1-4220E+04 1-6754E+02
P	"MOVING SHOCK 1.0656E+03 8.4107E+01	STANDING SHOCK 8.5481E+03 1.3352E+02	REFLECTED SHOCK 1.2548E+04 1.5651E+02	P	MOVING SHOCK 1.1704E+03 8.7774E+01	STANDING SHOCK 9.6205E+03 1.4350E+02	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01
P T RHO	"MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00	STANDING SHOCK 8.5481E+03 1.3352E+02 4.7383E+01	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906F+01	P T RHO	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01	STANDING SHOCK 9.6205E+03 1.4350E+02 4.8068E+01	REFLECTED SHDCK 1-4220E+04 1-6754E+02 5-6976E+01 5-6034E+02
P T RHO H	HOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02	STANDING SHOCK 8.5481E+03 1.3352E+02 4.7383E+01 4.1852E+02	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906F+01 5.0899E+02	Р Т RHO H	MOVING SHOCK 1.1704E+03 8.7774E+01 1.0170E+01 2.5790E+02	STANDING SHOCK 9.6205E+03 1.4350E+02 4.8068E+01 4.5928E+02	REFLECTED SHDCK 1.4220F+04 1.6754E+02 5.6976F+01 5.6034F+02 1.3762E+01
P T RHO H	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5762E+00	STANDING SHOCK 8.5481E+03 1.3352E+02 4.7383E+01 4.1852E+02 1.1572E+01	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906E+01 5.0899E+02 1.3000E+01	P T RHO H	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00	STANDING SHOCK 9.6205E+03 1.4350E+02 4.8068E+01 4.5928E+02 1.2220E+01	REFLECTED SHDCK 1-4220E+04 1-6754E+02 5-6976E+01 5-6034E+02
P T RHO H A S	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+00 8.5762E+00 1.5374E+00	STANDING SHOCK 8.5481E+03 1.3352E+02 4.7383E+01 4.1852E+02 1.1572E+01 1.6279E+00	REFLECTED SHOCK 1.254BE+04 1.5651E+02 5.5906F+01 5.0899E+02 1.3000E+01 1.6851E+00	Р Т КНО Н А S	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00	STANDING SMOCK 9.6205E+03 1.4350E+02 4.8068E+01 4.5928E+02 1.2220E+01 1.6599E+00	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.8897E+00
P T RHO H A S	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5762E+00 1.5374E+00 1.2824E+00	STANDING SHOCK 8-5481E+03 1-3352E+02 4-7383E+01 4-1852E+02 1-1572E+01 1-6279E+00 1-3512E+00	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906F+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00	P T RHO H A S Z	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00	STANDING SHOCK 9.6205E+03 1.4350E+02 4.808E+01 4.5928E+02 1.2220E+01 1.6599E+00 1.3948E+00	REFLECTED SHDCK 1-4220E+04 1-6754E+02 5-6976E+01 5-6034E+02 1-3762E+01 1-7191E+00
P T RHO H A S	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5762E+00 1.5374E+00 1.2824E+00 6.8191E-01	STANDING SHOCK 8.5481E+03 1.352E+02 4.7383E+01 4.1852E+02 1.1572E+01 1.6279E+00 1.3512E+00 7.4226E-01	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906E+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00 7.5295E-01	P T RHO H A S Z	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00	STANDING SHOCK 9.6205E03 1.4350E03 4.8068E01 4.5928E02 1.2220E01 1.6599E00 1.3948E00 7.4605E-01	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.4897E+00 7.5880E-01
P T RHO H A S	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5752E+00 1.5374E+00 1.2024E+00 6.8191E-01 2.3962E+01	STANDING SHOCK 8.5481E+03 1.352E+02 4.7383E+01 4.1852E+02 1.1572E+01 1.6279E+00 1.3512E+00 7.4226E-01	REFLECTED SHOCK 1.2548E+04 1.55651E+02 5.5908E+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00 7.5295E-01 5.1422E+00	P T RHO H A S Z GANE	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01	STANDING SHOCK 9.6205E03 1.4350E03 4.8068E01 4.5928E02 1.2220E01 1.6599E00 1.3948E00 7.4605E-01	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.8897E+00 7.5880E+01 5.4633E+00
P T HO H A S Z GAME U	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5762E+00 1.5374E+00 1.2824E+00 6.8191E-01 2.3962E+01	STANDING SHOCK 8.5481E+03 1.3352E+02 4.7383E+01 4.1852E+02 1.1572E+01 1.6279E+00 1.3512E+00 7.4226E-01 4.9971E+00	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906F+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00 7.5295E-01 5.1422E+00	P T RHO H S S Z GAME U	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01	STANDING SHOCK 9.6205E03 1.4350E03 4.8068E+01 4.5928E+02 1.2220E+01 1.6599E+00 1.3948E+00 7.4605E-01 5.3269E+00	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.4897E+00 7.5880E-01 5.4633E+00
P T HO H A S Z GAME U	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.574E+00 1.5374E+00 1.2024E+01 2.3962E+01	STANDING SHOCK	REFLECTED SHOCK 1.2549E+04 1.5651E+02 5.5906E+01 5.0899E+02 1.3000E+01 1.4851E+00 1.4342E+00 7.5295E-01 5.1422E+00	P T RHO H A S Z GANE U SPEC	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01	STANDING SHOCK 9.6205E03 1.4350E03 4.8068E01 4.5928E02 1.2220E01 1.6599E00 1.3948E00 7.4605E-01 5.3269E00	REFLECTED SHDCK 1.4220E904 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.4897E+00 7.5880E-01 5.4633E+00
P T HO H A S Z GAME U SPECIE:	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5762E+00 1.5374E+00 6.8191E-01 2.3962E+01 S	STANDING SHOCK 8-5481E+03 1-3352E+02 4-7383E+01 4-1852E+02 1-1572E+01 1-6279E+00 7-4226E-01 4-9971E+00 	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906E+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00 7.5295E-01 5.1422E+00	P T RHO H A S Z GAMU U SPEC E- A	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01 SIES	STANDING SHOCK 9.6205Ex03 1.4350Ex02 4.8068Ex01 4.5928Ex02 1.2220Ex01 1.6599Ex00 1.3948Ex00 7.4605E-01 5.3269Ex00	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.4897E+00 7.5880E+01 5.4633E+00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5752E+00 1.5374E+00 1.2824E+01 2.3962E+01 S	\$TANDING \$HOCK 8.5481E+03 1.3352E+02 4.7383E+01 4.1852E+02 1.1572E+01 1.6279E+00 1.3512E+00 7.4226E-01 4.9971E+00 -/ MOLE FRACTIONS 2.5989E-01 4.8687E-01 2.4657E-01	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906E+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00 7.5295E-01 5.1422E+00	P T RHO A S Z GAME U SPEC E- A A+	MOVING SHOCK 1-170×E+03 8-774×E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01 SIES	STANDING SHOCK 9.6205E03 1.4350E03 4.8068E+01 4.5928E+02 1.2220E+01 1.6599E+00 1.3948E+00 7.4605E-01 5.3269E+00	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.4897E+00 7.5880E-01 5.4633E+00
P T RHO H A S Z Z GAME U SPECIE:	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.572E+00 1.5374E+00 1.2024E+00 6.8191E-01 2.3962E+01  S 2.2024E-01 2.1988E-01 1.7701E-04	STANDING SHOCK	REFLECTED SHOCK 1.2549E+04 1.5651E+02 5.5906E+01 5.0899E+02 1.3000E+01 1.4851E+00 1.4342E+00 7.5295E-01 5.1422E+00	P T RHO H S Z Gane U SPEC E- A A++	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01  SIES	STANDING SHOCK 9.6205Ex03 1.4350Ex02 4.8068Ex01 4.5928Ex02 1.2220Ex01 1.6599Ex00 7.4605Ex01 5.3269Ex00	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.4897E+00 7.5880E+01 5.4633E+00  3.2871E+01 3.6723E+01 2.7946E+01 2.4529E+02
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5762E+00 1.2624E+00 1.2624E+01 2.3962E+01 2.2024E-01 5.5971E-01 2.1988E-01 1.7701E-04 1.2061E-10	STANDING SHOCK 8.5481E+03 1.3352E+02 4.7383E+01 4.1852E+02 1.1572E+01 1.6279E+00 1.3512E+00 7.4-226E-01 4.9971E+00	REFLECTED SHOCK 1.2548E+04 1.5561E+02 5.5906F+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00 7.5295E-01 5.1422E+00 4.1173E-01 2.6836E-01 1.7151E-02 2.4272E-05	P T RHO H A S Z GAMI U SPEC E- A A+ A+++	MOVING SHOCK 1-170×E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01 CIES	STANDING SHOCK 9.6205Ex03 1.4350Ex02 4.8068Ex01 4.5928Ex02 1.220Ex01 1.6599Ex00 1.3948Ex00 7.4605E-01 5.3269Ex00	REFLECTED SHDCK 1.4220E+04 1.4754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.4897E+00 7.5880E+01 5.4633E+00 3.6723E+01 2.7946E+01 2.4529E+02 6.4140E+05
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5762E+00 1.5374E+00 1.2824E+00 6.8191E-01 2.3962E+01 S	\$TANDING \$HOCK  8.5481E+03  1.352E+02  4.7383E+01  4.1852E+02  1.1572E+01  1.6279E+00  1.3512E+00  7.4226E-01  4.9971E+00	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906F+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00 7.5295E-01 5.1422E+00  3.0274E-01 4.1173E-01 2.6836E-01 1.7151E-02 2.4272E-05 4.0167E-10	P T RHO H S S Z GAMI U SPEC A A+ A++ A+++	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01  CIES 2-3729E-01 5-22572E-01 2-3668E-01 3-0629E-04 4-3879E-10 2-7591E-19	STANDING SHOCK 9.6205E03 1.4350E02 4.8068E+01 4.5928E+02 1.2220E+01 1.6599E+00 7.4605E-01 5.3269E+00	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.8897E+00 7.5880E+01 5.4633E+00  3.2871E+01 3.6723E+01 2.4529E+02 6.4140E+05 2.6502E+09
P T RHO H A S Z GAME U SPECIE: E-A++++++++++++++++++++++++++++++++++++	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5762E+00 1.5374E+00 1.2024E+01 2.3962E+01  S	STANDING SHOCK	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906F+01 5.0899E+02 1.3000E+01 1.4842E+00 7.5295E-01 5.1422E+00  3.0274E-01 4.1173E-01 2.6836E-01 1.7151E-02 2.4272E-05 4.0167E-10 7.7758E-17	P T RHO H A S Z GANE U SPEC E- A A+ A++ A+++ A+++	MOVING SHOCK 1-17048+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01  CIES 2-3729E-01 2-3668E-01 3-0629E-04 4-3879E-10 2-7591E-19 8-8068E-32	STANDING SHOCK 9.6205Ex03 1.4350Ex02 4.8068Ex01 4.5528Ex02 1.2220Ex01 1.6559Ex00 7.4605Ex01 5.3269Ex00	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.4897E+00 7.5880E+01 5.4633E+00  3.2871E-01 3.6723E+01 2.4529E+02 6.4140E+05 2.6502E+09 1.6794E+15
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5762E+00 1.5374E+00 1.2824E+01 2.3962E+01  2.2024E-01 2.5971E-01 2.1988E-01 1.7701E-04 1.2061E-10 2.6083E-20 2.1178E-33 3.2243E-50	STANDING SHOCK 8.5481E+03 1.3352E+02 4.7383E+01 4.1852E+02 1.1572E+01 1.6279E+00 1.3512E+00 7.4226E-01 4.9971E+00	REFLECTED SHOCK 1.2548E+04 1.5551E+02 5.5906F+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00 7.5295E-01 5.1422E+00  3.0274E-01 4.1173E-01 2.6836E-01 1.7151E-02 2.4272E-05 4.0167E-10 7.7758E-17 1.0495E-25	P T RHO H A S GAME U SPEC E- A A++ A+++ AV AV	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01  SIES 2-3729E-01 2-3668E-01 3-0629E-04 4-3879E-10 2-7591E-19 8-8068E-32 7-2011E-48	STANDING SHOCK 9.6205Ex03 1.4350Ex02 4.8068Ex01 4.5928Ex02 1.2220Ex01 1.6599Ex00 1.3948Ex00 7.4605E-01 5.3269Ex00	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.4897E+00 7.5880E-01 5.4633E+00  3.2871E-01 3.6723E-01 2.7946E-01 2.4529E-02 6.4140E-05 2.6502E-09 1.6794E-15 9.9875E-24
P T RHO H A S Z GAME U SPECIE: E-A A+A+A+A+A+A+AVI AVII	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5752E+00 1.5374E+00 1.2824E+00 6.8191E-01 2.3962E+01 5.5971E-01 2.198E-01 1.7701E-04 1.2061E-10 2.6083E-20 2.1178E-33 3.2343E-50 1.5928E-72	STANDING SHOCK  8.5481E+03  1.352E+02  4.7383E+01  4.1852E+02  1.1572E+01  1.6279E+00  1.3512E+00  7.4226E-01  4.9971E+00  -/ MOLE FRACTIONS  2.5989E-01  4.8687E-01  2.4657E-01  6.6580E-03  1.8921E-06  2.983E2E-12  2.7311E-20  8.1857E-31  1.7394E-44	REFLECTED SHOCK 1.2548E+04 1.5651E+02 5.5906F+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00 7.5295E-01 5.1422E+00  3.0274E-01 4.1173E-01 2.6836E-01 1.7151E-02 2.4272E-05 4.0167E-10 7.758E-17 1.0495E-25 3.4771E-37	P T RHO H A S Z GAMI U SPEC E- A A+ A++ A+++ AV AVI AVI AVI	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01  SIES 2-3729E-01 5-2572E-01 3-0629E-04 4-3879E-10 2-7591E-19 8-8068E-32 7-2011E-48 3-4611E-69	STANDING SHOCK 9.6205E03 1.4350E03 1.4350E02 4.8068E01 4.5928E02 1.2220E01 1.6599E00 1.3948E00 7.4605E-01 5.3269E+00 ***  ***MOLE FRACTIONS 2.8304E-01 4.4514E-01 2.6063E-01 1.1193E-02 7.1379E-06 3.5757E-11 1.4463E-18 2.7303E-28 6.6414E-41	REFLECTED SHDCK 1.4220E + 04 1.6754E + 02 5.6976E + 01 5.6034E + 02 1.3762E + 01 1.7191E + 00 1.8897E + 00 7.5880E - 01 5.4633E + 00
P T RHO H A S Z GAME U SPECIE:	MOVING SHOCK 1.0656E+03 8.4107E+01 9.8793E+00 2.3545E+02 8.5762E+00 1.5374E+00 1.2824E+01 2.3962E+01  2.2024E-01 2.5971E-01 2.1988E-01 1.7701E-04 1.2061E-10 2.6083E-20 2.1178E-33 3.2243E-50	STANDING SHOCK 8.5481E+03 1.3352E+02 4.7383E+01 4.1852E+02 1.1572E+01 1.6279E+00 1.3512E+00 7.4226E-01 4.9971E+00	REFLECTED SHOCK 1.2548E+04 1.5551E+02 5.5906F+01 5.0899E+02 1.3000E+01 1.6851E+00 1.4342E+00 7.5295E-01 5.1422E+00  3.0274E-01 4.1173E-01 2.6836E-01 1.7151E-02 2.4272E-05 4.0167E-10 7.7758E-17 1.0495E-25	P T RHO H A S GAME U SPEC E- A A++ A+++ AV AV	MOVING SHOCK 1-1704E+03 8-7774E+01 1-0170E+01 2-5790E+02 8-8870E+00 1-5671E+00 1-3111E+00 6-8629E-01 2-5150E+01  SIES 2-3729E-01 5-2572E-01 3-0629E-04 4-3879E-10 2-7591E-19 8-8068E-32 7-2011E-48 3-4611E-69	STANDING SHOCK 9.6205Ex03 1.4350Ex02 4.8068Ex01 4.5928Ex02 1.2220Ex01 1.6599Ex00 1.3948Ex00 7.4605E-01 5.3269Ex00	REFLECTED SHDCK 1.4220E+04 1.6754E+02 5.6976E+01 5.6034E+02 1.3762E+01 1.7191E+00 1.4897E+00 7.5880E-01 5.4633E+00  3.2871E-01 3.6723E-01 2.7946E-01 2.4529E-02 6.4140E-05 2.6502E-09 1.6794E-15 9.9875E-24

 $p_1 = 200 \text{ kN/m}^2$ 

Pl =	2.00E+05 N/SQ-N	. US1= 9.20E+0	3 M/SEC	P1 = 2	2.00E+05 N/SQ-M	, USI= 9.60E+0	3 M/SEC
	MOVING SHOCK	STANDING . SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.2243E+03	1.0164E+04		P	1.3353E+03	1.1231E+04	1.6757E+04
T	8.9737E+01	1.4834E+02	1.7294E+02	7	9.3973E+01	1.5768E+02	1.8349E+02
RHO -	1.0289E+01	4.8329E+01	5.7372E+01	RHO	1.0470E+01	4.8599E+01	5.7848E+01
н	2.6950E+02	4.8030E+02	5.8690E+02	н	2.9345E+02	5.2341E+02	6.4133E+02
Ä	9.0577E+00	1.2540E+01	1.41476+01	Ä	9.4337E+00	1.3179E+01	1.4922E+01
Ŝ.	1.58206+00	1.6756E+00	1.7359E+00.	ŝ	1.6118E+00	: 1.7068E+00	1.7693E+00
ž.	1.3260E+00	1.4177E+00	1.5187E+00	ž	1.3571E+00	1.4657E+00	1.5787E+00
GAME	6.8946E-01	7.4774E-01	7.6202E-01	GAME	6.9780E-01	7.5161E-01	7.6866E-01
U	2.5739E+01	5.4851E+00	5.6279E+00	U	2.6904E+01	5.8249E+00	5.9442E+00
<b>0</b> . ··	. 2031 392 401	J.40J1E400	3.021 72 400		2007012102		2071101109
SPEC LE	s	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	
E-	2.4587E-01	2.9463E-01	3.4154E-01	E+	2.6316E-01	3.1771E-01	3.6655E-01
Α.	5.0867E-01	4.2466E-01	3.4567E-01	A	4.7440E-01	3.8468E-01	3.0451E-01
A+ -	2-4506F-01	2.6679E-01	2.8412E-01	A+.	2.6173E-01	2.7754E-01	2.9151E-01
A++	4.0454E-04	1.3901E-02	2.8567E-02	A++	7.1294E-04	2.0038E-02	3.7216E-02
A+++	8.4666E-10	1.2560E-05	9.7553E-05	A+++	3.23916-09	3.3123E-05	2.0298E-04
A++++	9.1623E-19	1.0404E-10	6.0426E-09	A++++	1.0544E-17	6.6196E-10	2.5902E-08
AV	5.8865E-31	8.0472E-18	6.4748E-15	AV	2.7699E-29	1.5955E-16	7.0921E-14
IVA	. 1.1451E-46	3.3980E-27	7.4401F-23	IVA	3.0202E-44	2.7721E-25	2.6490E-21
AVII	1.8299E-67	2.3884E-39	4.0065E-33	AVII		1.2451E-36	6.5180E-31
AVIII	1.7069E-92	3.0527E-54	8.6876E-46	IIIVA	6.7698E-88	. 1.4126E-50	8.5774E-43
P1 =	2.00E+05 N/SQ-M	• US1= 9.40E+0	3 M/SEC	P1 = 2	:.00E+05 N/SQ-N	,. US1= 9.80E+0	3 M/SEC
Pl =							3 4/360
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	.STANDING SHOCK	REFLECTED SHOCK
P.	MOVING SHOCK 1.2793E+03	STANDING SHOCK 1.0696E+04	REFLECTED SHOCK	P	MOVING SHOCK 1.3923E+03	STANDING SHOCK	REFLECTED SHOCK 1.7590E+04
P . T	MOVING SHOCK 1.2793E+03 9.1800E+01	STANDING SHOCK 1.0696E+04 1.5305E+02	REFLECTED SHOCK 1.5914E+04 1.7829E+02	P	MOVING SHOCK 1.3923E+03 9.6263E+01	STANDING SHOCK- 1-1764E+04 1-6222E+02	REFLECTED SHOCK 1.7590E+04 1.8867E+02
P. T RHO	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01	STANDING SHOCK 1.0696E+04 1.5305E+02 4.8486E+01	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01	P T RHO	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01	.STANDING SHOCK 1.1764E+04 1.6222E+02 4.8647E+01	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01
P . T	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02	STANDING SHDCK 1.0696E+U4 1.5305E+02 4.8486E+01 5.0163E+02	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02	Р Т RHO H	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02	.STANDING SHOCK- 1.1764E+04 1.6222E+02 4.8647E+01 5.4559E+02	REFLECTED SMOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02
P T RHO H	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00	STANDING SHOCK 1.0696E+U4 1.5305E+02 4.8486E+01 5.0163E+02 1.2859E+01	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1302E+02 1.4537E+01	P T RHO H	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00	.STANDING SHDCK- 1.1764E+04 1.6222E+02 4.8647E+01 5.4559E+02 1.3502E+01	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01
P T RHO H A S	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00	STANDING SHDCK 1.0696E+04 1.5305E+02 4.8486E+01 5.0163E+02 1.2859E+01 1.6913E+00	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00	P T RHO H A S	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.6267E+00	.STANDING SHOCK 1.1764E+04 1.6222E+02 4.8647E+01 5.4559E+02 1.3502E+01 1.7224E+00	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00
P T RHO H A S	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00	STANDING SHOCK 1.0696E+U4 1.5305E+02 4.8486E+01 5.0163E+02 1.2859E+01 1.6913E+00 1.4413E+00	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00	P T RHO H A S Z	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.6267E+00 1.3734E+00	.STANDING SHOCK- 1-1764E+04 1-6222E+02 4-8647E+01 5-4559E+02 1-3502E+01 1-7224E+00 1-4906E+00	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00
P. T. RHO H. A. S. Z. GAME	MDVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01	STANDING SHOCK 1.0696E+04 1.5305E+02 4.8486E+01 5.0163E+02 1.2859E+01 1.6913E+00 7.4956E-01	REFLECTED SHDCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00 7.6535E-01	P T RMO H A S Z GAME	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.6267E+00 1.3734E+00 7.0285E-01	.STANDING SHOCK- 1.1764E-04 1.622E+02 4.8647E+01 5.4559E+02 1.350ZE+01 1.7224E-00 1.4906E+00 7.5386E-01	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01
P T RHO H A S	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00	STANDING SHOCK 1.0696E+U4 1.5305E+02 4.8486E+01 5.0163E+02 1.2859E+01 1.6913E+00 1.4413E+00	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00	P T RHO H A S Z	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.6267E+00 1.3734E+00	.STANDING SHOCK- 1-1764E+04 1-6222E+02 4-8647E+01 5-4559E+02 1-3502E+01 1-7224E+00 1-4906E+00	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00
P. T. RHO H. A. S. Z. GAME	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01 2.6323E+01	STANDING SHOCK 1.0696E+04 1.5305E+02 4.8486E+01 5.0163E+02 1.2859E+01 1.6913E+00 7.4956E-01	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00 7.6535E-01 5.7837E+00	P T RMO H A S Z GAME	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.6267E+00 1.3734E+00 7.0285E-01 2.7480E+01	.STANDING SHOCK 1.1764E+04 1.622ZE+02 4.8647E+01 5.4559E+02 1.350ZE+01 1.7224E+00 1.4906E+00 7.5386E-01 5.9764E+00	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01
P. T. RHD H. A. S. Z. GAME. U. SPECIE	MDVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01 2.6323E+01	STANDING SHOCK 1.0696E+04 1.5305E+02 4.8486E+01 5.0163E+02 1.2859E+01 1.6913E+00 1.4413E+00 7.4956E-01 5.6645E+00	REFLECTED SMDCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00 7.6535E-01 5.7837E+00	P T RHO H A S Z GAME U	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.6267E+00 1.3734E+00 7.0285E-01 2.7480E+01	STANDING SHOCK 1.1764E+04 1.622E+02 4.8647E+01 5.4559E+02 1.3502E+01 1.7224E+00 1.4906E+00 7.5388E+01 5.9764E+00	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01 6.1050E+00
P. T. RHD H. A. S. Z. GAME	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01 2.6323E+01	STANDING SHOCK 1.0696E+04 1.5305E+02 4.6486E+01 5.0163E+02 1.2859E+01 1.6913E+00 1.4413E+00 7.4956E+01 5.6645E+00	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00 7.6535E-01 5.7837E+00	P T RHO H A S Z GAME U	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.4267E+00 1.3734E+00 7.0285E-01 2.7480E+01	.STANDING SHOCK- 1.1764E-04 1.6222E+02 4.8647E+01 5.4559E+02 1.3502E+01 1.7224E+00 1.4906E+00 7.5386E-01 5.9764E+00  - MOLE FRACTIONS 3.2915E-01	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01 6.1050E+00
P.TRHOHASSZGAMEU	MOVING SHOCK 1.2793E+03 9.180DE+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01 2.6323E+01 S	STANDING SHOCK 1.0696E+04 1.5305E+02 4.6486E+01 5.0163E+02 1.2859E+01 1.6913E+00 7.4956E-01 5.6645E+00  - MOLE FRACTIONS 3.0620E-01 4.0450E-01	REFLECTED SHOCK  1.5914E+04 1.782E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00 7.6535E-01 5.7837E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.6267E+00 7.0285E-01 2.7480E+01	.STANDING SHOCK- 1-1764E+04 1-622ZE+02 4-8647E+01 5-4559E+02 1-3502E+01 1-7224E+00 1-4906E+00 7-5386E+01 5-9764E+00  - MOLE FRACTIONS 3-2915E-01 3-6523E-01	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01 6.1050E+00
P T RHO H A S Z GAME U SPECIE	MDVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01 2.6323E+01	STANDING SHOCK 1.0696E+04 1.5305E+02 4.8486E+01 5.0163E+02 1.2859E+01 1.6913E+00 1.4413E+00 7.4956E-01 5.6645E+00  - MOLE FRACTIONS 3.0620E-01 4.0450E-01 2.7243E-01	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00 7.6535E-01 5.7837E+00 3.5430E-01 3.2452E-01 2.8819E-01	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.6267E+00 1.3734E+00 7.0285E-01 2.7480E+01	.STANDING SHOCK 1.1764E-04 1.622ZE-02 4.8647E-01 5.4559E-02 1.350ZE-01 1.7224E-00 1.4906E-00 7.5386E-01 5.9764E-00 - MOLE FRACTIONS 3.2915E-01 3.6523E-01 2.8214E-01	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.693&E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01 6.1050E+00
P. T. RHD H A S Z GAME U SPECIE	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01 2.6323E+01 S	STANDING SHOCK 1.0696E+04 1.5305E+02 4.6486E+01 5.0163E+02 1.2859E+01 1.6913E+00 1.4413E+00 7.4956E-01 5.6645E+00	REFLECTED SHOCK  1.5914E+04  1.7829E+02  5.7633E+01  6.1382E+02  1.4537E+01  1.7529E+00  1.5487E+00  7.6535E-01  5.7837E+00   3.5430E-01  3.2452E-01  2.8819E-01  3.2843E-02	P T HO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.0267E+00 1.3734E+00 7.0285E-01 2.7480E+01 2.7187E-01 4.5720E-01 2.6997E-01 9.5121E-04	.STANDING SHOCK- 1.1764E-04 1.622ZE+02 4.8647E+01 5.4559E+02 1.350ZE+01 1.7224E+00 1.4906E+00 7.5386E-01 5.9764E+00  - MOLE FRACTIONS 3.2915E-01 3.6523E-01 2.8214E-01 2.3431E-02	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01 6.1050E+00  3.7876E-01 2.8489E+01 2.9423E-01 4.1839E-02
P. T RHO H A S Z GAME U SPECIE E- A A+ A++	MDVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.3414E+00 6.9331E-01 2.6323E+01 S	STANDING SHOCK 1.0696E+04 1.5305E+02 4.8486E+01 5.0163E+02 1.2859E+01 1.6913E+00 1.4413E+00 7.4956E-01 5.6645E+00  - MOLE FRACTIONS 3.0620E-01 4.0450E-01 2.7243E-01 1.6854E-02 2.0872E-05	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00 7.6535E-01 5.7837E+00  3.5430E-01 3.2452E-01 2.8819E-01 3.2443E-02 1.4344E-04	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.3734E+00 7.0285E-01 2.7480E+01 2.7187E-01 4.5720E-01 2.6997E-01 9.5121E-04 6.4257E-09	STANDING SHOCK 1.17646+04 1.62226+02 4.86476+01 5.45596+02 1.35026+01 1.72246+00 7.5386E-01 5.97646+00  - MOLE FRACTIONS 3.2915E-01 3.6523E-01 2.82146-01 2.3431E-02 5.0487E-05	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01 6.1050E+00 3.7876E-01 2.9423E-01 4.1839E-02 2.8095E-04
P. T. RHO H. A. S. Z. GAME U. SPECIE E. A.	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01 2.6323E+01 S 	STANDING SHOCK 1.0696E-04 1.5305E-02 4.6486E+01 5.0163E+02 1.2859E+01 1.6913E+00 1.4413E+00 7.4956E-01 5.6645E+00  - MOLE FRACTIONS - 3.0620E-01 4.0450E-01 2.7243E-01 1.6854E-02 2.0872E-05 2.733IE-10	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00 7.6535E-01 5.7837E+00  3.5430E-01 3.2452E-01 2.8819E-01 3.2843E-02 1.4344E-04 1.2958E-08	PT RHO HAS Z GAME U SPECIES E-AA+A++A+++A+++	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.6267E+00 1.773E+00 7.0285E-01 2.7480E+01 2.7187E-01 4.5720E-01 9.5121E-04 6.4257E-09 3.6663E-17	.STANDING SHOCK 1.1764E-04 1.6222E+02 4.8647E+01 5.4559E+02 1.3502E+01 1.7224E+00 1.4906E+00 7.5386E-01 5.9764E+00 - MOLE FRACTIONS 3.2915E-01 3.6523E-01 2.8214E-01 2.3431E-02 5.0487E-05 1.4920E-09	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01 6.1050E+00  3.7876E-01 2.8469E+01 2.8469E-01 4.1839E-02 2.8095E-04 4.9716E-08
P. T. RHD H A S Z GAME U SPECIE E-A A+A A++A A++A AV	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01 2.6323E+01  S 2.5449E-01 4.9156E-01 2.5342E-01 5.3609E-04 1.6480E-09 3.0828E-18 3.9904E-30	STANDING SHOCK 1.0696E+04 1.5305E+02 4.6486E+01 5.0163E+02 1.2859E+01 1.6913E+00 7.4956E-01 5.6645E+00  - MOLE FRACTIONS 3.0620E-01 4.0450E-01 2.7243E-01 1.6854E-02 2.0872E-05 2.7331E-10 3.8162E-17	REFLECTED SHOCK  1.5914E+04  1.7829E+02  5.7633E+01  6.1382E+02  1.4537E+01  1.7529E+00  1.5487E+00  7.6535E-01  5.7837E+00   3.5430E-01  3.2452E-01  2.8819E-01  3.2843E-02  1.4344E-04  1.2958E-08  2.2659E-14	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV++ AV	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.4267E+00 1.3734E+00 7.0285E-01 2.7480E+01 2.7187E-01 4.5720E-01 2.6997E-01 9.5121E-04 6.4257E-09 3.6663E-17 1.9743E-28	.STANDING SHOCK- 1.1764E-04 1.622ZE+02 4.8647E+01 5.4559E+02 1.3502E+01 1.7224E+00 1.4906E+00 7.5386E-01 5.9764E+00  - MOLE FRACTIONS 3.2915E-01 3.6523E-01 2.8214E-01 2.8214E-01 2.3431E-02 5.0487E-05 1.4920E-09 5.9610E-16	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.792ZE+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01 6.1050E+00  3.7876E-01 2.9423E-01 4.1839E-02 2.8095E-04 4.9716E-08 2.0804E-13
P. T RHO H A S Z GAME U SPECIE E-A A+A+A+A AVI	MDVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01 2.6323E+01  S 2.5449E-01 4.9156E-01 2.5342E-01 5.3609E-04 1.6480E-09 3.0828E-18 3.9904E-30 1.8318E-45	STANDING SHOCK 1.0696E+04 1.5305E+02 4.8486E+01 5.0163E+02 1.2859E+01 1.6913E+00 1.4413E+00 7.4956E-01 5.6645E+00  - MOLE FRACTIONS 3.0620E-01 4.0450E-01 2.7243E-01 1.6854E-02 2.0872E-05 2.7331E-10 3.8162E-17 3.3584E-26	REFLECTED SHOCK 1.5914E+04 1.7829E+02 5.7633E+01 6.1382E+02 1.4537E+01 1.7529E+00 1.5487E+00 7.6535E-01 5.7837E+00  3.5430E-01 3.2452E-01 2.8819E-01 3.2843E-02 1.4344E-04 1.2958E-08 2.2659E-14 4.8158E-22	P T RMO H A S Z GAME U SPECIES E- A A++ A+++ A+++ AVY AVI	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.6267E+00 1.3734E+00 7.0285E-01 2.7480E+01  2.7187E-01 4.5720E-01 2.6997E-01 9.5121E-04 6.4257E-09 3.6663E-17 1.9743E-28 5.1918E-43	STANDING SHOCK 1.1764E+04 1.622E+02 4.8647E+01 5.4559E+02 1.3502E+01 1.7224E+00 1.4906E+00 7.5388E+01 5.9764E+00  MULE FRACTIONS 3.2915E+01 3.6523E+01 2.8214E+01 2.3431E+02 5.948TE+05 1.4920E+09 5.9610E+16 1.9454E+26	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.7922E+01 6.693&E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.719&E-01 6.1050E+00  3.7876E-01 2.8489E-01 2.9423E-01 4.1839E-02 2.8095E-04 4.9716E-08 2.0804E-13 1.3254E-20
P. T. RHD H A S Z GAME U SPECIE E-A A+A A++A A++A AV	MOVING SHOCK 1.2793E+03 9.1800E+01 1.0389E+01 2.8135E+02 9.2397E+00 1.5969E+00 1.3414E+00 6.9331E-01 2.6323E+01  S 2.5449E-01 4.9156E-01 2.5342E-01 5.3609E-04 1.6480E-09 3.0828E-18 3.9904E-30	STANDING SHOCK 1.0696E+04 1.5305E+02 4.6486E+01 5.0163E+02 1.2859E+01 1.6913E+00 7.4956E-01 5.6645E+00  - MOLE FRACTIONS 3.0620E-01 4.0450E-01 2.7243E-01 1.6854E-02 2.0872E-05 2.7331E-10 3.8162E-17	REFLECTED SHOCK  1.5914E+04  1.7829E+02  5.7633E+01  6.1382E+02  1.4537E+01  1.7529E+00  1.5487E+00  7.6535E-01  5.7837E+00   3.5430E-01  3.2452E-01  2.8819E-01  3.2843E-02  1.4344E-04  1.2958E-08  2.2659E-14	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++ AV++ AV	MOVING SHOCK 1.3923E+03 9.6263E+01 1.0531E+01 3.0579E+02 9.6396E+00 1.4267E+00 1.3734E+00 7.0285E-01 2.7480E+01 2.7187E-01 4.5720E-01 2.6997E-01 9.5121E-04 6.4257E-09 3.6663E-17 1.9743E-28	.STANDING SHOCK- 1.1764E+04 1.6222E+02 4.8647E+01 5.4559E+02 1.3502E+01 1.7224E+00 1.4906E+00 7.5386E-01 5.9764E+00  - MOLE FRACTIONS 3.2915E-01 3.6523E-01 2.3431E-02 5.0487E-05 1.4920E-09 5.9610E-16 1.9454E-24 1.9881E-35	REFLECTED SHOCK 1.7590E+04 1.8867E+02 5.792ZE+01 6.6934E+02 1.5311E+01 1.7860E+00 1.6097E+00 7.7196E-01 6.1050E+00  3.7876E-01 2.9423E-01 4.1839E-02 2.8095E-04 4.9716E-08 2.0804E-13

### $\rm p_1$ = 200 kN/m 2

P1 =	* 2.00E+05 N/SQ-M	. US1= 1.00E+0	4 M/SEC	P1 = 2.	00E+05 N/SQ-M	. US1= 1.04E+0	4 M/SEG .
			•				
	HOWING SHOCK	STANDING SHOCK	BEEL ECTED SUBSY		MOUTHE CHOCK	TANDING CHOCK	AFEI FETED SHOEK
P	1.4502E+03	1.2284E+04	REFLECTED SHOCK	ρ .	1.5688E+03	STANDING SHOCK	REFLECTED SHOCK 2.000 8E+04
Ť	9.8677E+01	1.6667E+02	1.8412E+04 1.9379E+D2		1.0387E+02	1.3310E+04	
RHO	1.0572E+01	4.8609E+01	5.7888E+01		1.0600E+01	4.8379E+01	2.0387E+02
H	3.1838E+02	5.6814E+02		RHB			5.7533E+01
Δ			6.9785E+02	H -	3.4429E+02	6.1450E+02	7.5625E+02
	9.8568E+00	1.3825E+01	1-5702E+01	A	1.0317E+01	1.4477E+01	1.6483E+01
S	1.6416E+00	1.7378E+00	1.8026E+00	Ş	1.6711E+00	1.7687E+00	1.8358E+00
Z	1.3901E+00	1.5163E+00	1.6412E+00	2	1.4249E+00	1.5693E+00	1.7058E+00
GAME	7.0828E-01	7.5628E-01	7.7517E-01	GAME	7.1915E-01	7.6146E-01	7.8122E-01
Ų.	2.8051E+01	6.1313E+00	6.2660E+00	U	2.9181E+01	6.3949E+00	6.5856E+00
SPECI	IF\$	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	**********
,				3rectes	•	- HOLE PRACTIONS	
E-	2.8063E-01	3.4048E-01	3.9071E-01	E-	2.9821E-01	3.6276E-01	4.1377E-01
A	4.4001E-01	3.4619E-01	2.6600E-01	A	4.0586E-01	3.0948E-01	2.3058E-01
A+	2.7809E-01	2.8624E-01	2.9626E-01	<b>A+</b> .	2.9365E-01	2.9291E-01	2.9818E-01
A++	1.2721E-03	2.7010E-02	4.6651E-02	A++	2.2760E-03	3.4706E-02	5.6811E-02
A+++	1.28426-08	7.42746-05	3.8001E-04	A+++	5.1680E-08	1.47786-04	6-5550E-04
A++++	1.2914E-16	3.1548E-09	9-1432E-08	A++++	1.6234E-15	1.2130E-08	2.7705E-07
AV .	1.4355E-27	2.0140E-15	5.6978E-13	AV	7.7273E-26	1.8148E-14	3-5850E-12
AVI -	9.1938E-42	1.1800E-23	5.9973E-20	IVA	2.94758-39	3.0862E-22	9.4638E-19
IIVA	1.6852E-60	2.5782E-34	5.5449E-29	AVII	6.0747E-57	2.6740E-32	2.8114E-27
LLIVA	3.8012E-83	1.8898E-47	3.5118E-40	LILVA	2.3118E-78	1.0001E-44	7-1180E-38
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			.*				
:			•			,	•
		. "					
							•
P1 =	2.00E+05 N/SQ-M	. US1= 1.02E+0	4 M/SEC	P1 = 2.	.00E+05 N/SQ-N	. US1= 1.06E+0	M M/SEC
		The second second					•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		HOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
	1.5090E+03	1.2800E+04	1.9215E+04		1.6296E+03		
7	1.0121E+02	1.7105E+02	1.98846+02	<u>P</u>	1.0662E+02	1.3791E+04 1.7960E+02	2.0789E+04
				T			2.0886E+02
	1.0594E+01	4-8512E+01	5.7756E+01	RHO	1.0592E+01	4.8097E+01	5.7240E+01
H	3.3121E+02	5.9109E+02	7-2672E+02	H,	3.5762E+02	6.3802E+02	7-8630E+02
S.	1.0083E+01	1.4150E+01	1.6091F+01	A	1.0553E+01	1.4801E+01	1.6875E+01
	1.6563E+00	1.7533E+00	1.8192E+00	Ş	1.6857E+30	1.7840E+00	1.8524E+00
L	1.4073E+00	1.5425E+00	1.6732E+00	2	1.4429E+00	1.5965E+00	1.7388E+00
GAME		7.5882E-01	7.7825E-01	GAME	7.2386E-01	7.6406E-01	7.8405E-01
U	2.8618E+01	6.2748E+00	6.4212E+00	U	2.9740E+01	6.5776E+00	6.7512E+00
SPECI	IES	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
SPECI	162 4444	- MULE PRACTIONS		SECTES		- MULE PRACTIONS	,
E-	2.8942E-01		4-0235E-01	E-	3.0695E-01	3.7362E-01	4.2491E-01
A	4.2287E-01	3.2760E-01	2.4794E-01	A	- 3.8912E-01	2.9193E-01	2.1404E-01
A+	2.8601E-01	2.8984E-01	2.9758E-01	<b>A+</b>	3.0090E-01	2.9547E-01	2.9805E-01
•			5.1627E-02	A++	3.0284E-03	3.8776E-02	6.2167E-02
A++	1.7027E-03	3.0769E-02					
A+++	1.7027E-03 2.5771E-08	1.0608E-04	5.0317E-04	A+++	1.0282E-07	2.0058E-04	8-4056E-04
				A+++ A+++	1.0282E-07 5.6729E-15	2.0058E-04 2.2145E-08	8.4056E-04 4.6129E-07
A+++	2.5771E-38	1.0608E-04	5.0317E-04				
A+++	2.5771E-08 4.5830E-16	1.0608E-04 6.3255E-09	5.0317E-04 1.6157E-07	A++++ AV	5.6729E-15	2.2145E-08	4.6129E-07
A+++ A++++ AV AVI	2.5771E-08 4.5830E-16 1.0561E-26 1.6581E-40	1.0608E-04 6.3255E-09 6.2606E-15 6.3470E-23	5.0317E-04 1.6157E-07 1.4627E-12 2.4686E-19	AVI AV A++++	5.6729E-15 5.5388E-25 5.0946E-38	2.2145E-08 4.8594E-14 1.3350E-21	4.6129E-07 8.3716E-12 3.3834E-18
A+++ A++++ AV	2.5771E-08 4.5830E-16 1.0561E-26	1.0608E-04 6.3255E-09 6.2606E-15	5.0317E-04 1.6157E-07 1.4627E-12	A++++ AV	5.6729E-15 5.5388E-25	2.2145E-08 4.8594E-14	4.6129E-07 8.3716E-12

P1 =	2.00E+05 N/SQ-M	. US1= 1.08E+0	4 M/SEC	P1 = 2	.00E+05 N/SQ-M	, US1= 1.15E+0	4 M/SEC
•				•			
	MOVING SHOCK	STANDING SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.6914E+03	1.4278E+94	2.1562E+04	P	1.9160E+03	1.5981E+04	2.4285E+04
Ŧ	1.0947E+02	1.8387E+02	2.1383E+02	Ţ	1.1971E+02	1.9827E+02	2.3118E+02
RHO	1.0575E+01	4.7795E+01	5.6899E+01	RHO .	1.0482E+01	4.6763E+01	5-5558E+01
H	3.7119E+02	6.6210E+02	8.1683E+C2	- н	4.2067E+02	7.4944E+02	9-2799E+02
Α.	1.0788E+01	1.5135E+01	- 1.7266E+01	<b>A</b>	1.1571E+01	1.6281E+01	1.8643E+01
	. 1.7001E+00	1.7997E+00	1.8690E+00	S.	1.7499E+00	1.8523E+00	1.9264E+00
Z	1.4612E+00	1.6248E+00	1.7722E+00	Z	1.5269E+30	1.7236E+00	1.8908E+00
GAME	7.2763E-01	7.6675E-01		GAME	7.3242E-01	7.7570E-01	7.9513E-01
Ü	3.0298E+01	- 6.7259E+00	6.9141E+00	U	3.2233E+01	7.2549E+00	7.4926E+00
SPEC IE	` s <del></del>	- MOLE FRACTIONS		SPEC 1ES		- MOLE FRACTIONS	
		2 0/525 01		_	2 (5005 01	4 10015 01	/ T110C 01
E-	3.1564E-01	3.8453E-01	4.3572E-01	E-	3.4508E-01	4.1981E-01	4.7112E-01
A	3.7272E-01	2.7458E-01	1.9836E-01	A A+	3.1942E-01	2.2055E-01	1.5014E-01
A+	3.0764E-01	2.9752E-01	2.9718E-01	A++	3.2591E-01	3.0010E-01 5.8889E-02	2.8856E-01 8.7979E-02
A++	4.0003E-03	4.3102E-02			9.5859E-03		
A+++	2.017LE-07	2.6881E-04	1.06246-03	A+++	1.7318E-06	6.4343E-04 2.2883E-07	2.1944E-03
A++++	1.9344E-14	3.9576E-08 1.2593E-13	7.4764E-07 1.8721E-11	AV	9.8745E-13 1.8921E-21	2.2697E-12	3.4089E-06 2.3765E-10
AV	3.8179E-24					4.16438-19	
IVA	8.2984E-37 1.7749E-53	5.5124E-21 1.6076E-30	1.1350E-17 9.6139E-26	IVA	6.6743E-33 6.0032E-48	7.4963E-28	5.2352E-16 2.2244E-23
AVIII	1.01246-73	2.5311E-42		IIIVA	2.6771E-66	1.0234E-38	1.3249E-32
AVIII.	1.01546-13		0.44976-30	*****	2.01112-00	1.02346-30	11.32436-32
•		•			•		
	_	•					
							•
•			•				
P1 =	2.00E+05 N/SU-M	. US1= 1.10E+0	4 M/SEC	P1 = 2	-00E+05 N/SQ-M	. US1= 1.20E+0	4 M/SEC
		STANDING SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
<u>P</u> :	1.7542E+03	1.4777E+04	2.2328E+04	₽`	2.0851E+03	1.7265E+04	2.6360E+04
T ye	1.1237E+02	1.8801E+02	2.1877E+02	Ţ	1.2694E+02	2.0876E+02	2.4378E+02
RHO .	1.0550E+01	4.7566E+01	5.6519E+01	CHR	1.0431E+01	4.6001E+01	5.4696E+01
Н ,	3.8501E+02	6.8665E+02	8.4783E+02	H .	4.5792E+02	8.1516E+02	1.0121E+03 <
A	1.1020E+01	1.5460E+01	1.7658E+01	A	1.2090E+01	1.7129E+01	1.9641E+01
s	1.7145E+00	1.8146E+00		ş ·	1.7847E+00	1.8902E+00	1.9670E+00
2	1.4798E+00	1.6524E+00	1.8057E+00	ž.	1.5748E+30	1.7979E+00	1.9769E+00
GANE		7.6938E-01	7.8927E-01	GAME	7.3116E-01	7.8174E-01	8.0046E-01
U	3.0850E+01	6.8431E+00	7.0776E+00	, U	3.3618E+01	7.6442E+00	7.9186E+00
					•		
SPEC IE	s	- MOLE FRACTIONS		SPEC IES		-, MOLE FRACTIONS	
E	3.2422E-01	3.9480E-01	4.4621E-01	€-	3.6498E-01	4.4378E-01	4.9416E-01
Ā	3.5678E-01	2.5851E-01	1.83558-01	A	2.8592E-01	1.8601E-01	1.2171E-01
Ā+	3.1377E-01	2.9892E-01	2.9559E-01	Ä÷	3.3322E-01	2.9774E-01	2.7754E-01
A++	5.2275E-03	4.7413E-02	7.3320E-02	Ã++	1.5872E-02	7.1361E-02	1.0315E-01
A+++	3.87166-07	3.5079E-04	1-3250E-03	A+++	6.2177E-06	1.10726-03	3.4267E-03
A++++ .	6.35416-14	6.7380E-08	1.1821E-06	. A++++	1.0481E-11	6.9574E-07	8.8525E-06
AV							
AVI	2.4899E-23	3.0230E-13	4.0231F-11	AV	8.0157E-20	1.4434E-11	1.1913E-09
IVA	2.4899E-23 1.2566E-35	3.0230E-13 2.0378E-20	4.0231F-11 3.5905E-17	AV AVI	8.0157E-20 1.5492E-30	1.4434E-11 6.6566E-18	1.1913E-09 6.0121E-15
AVI AVII AVIII.	2.4899E-23	3.0230E-13	4.0231F-11	AV	8.0157E-20	1.4434E-11	1.1913E-09

P1 =	2.00E+05 N/SQ-M	. US1= 1.25E+04	M/SEC	P1 = 2.	00E+05 N/SQ-H	, US1= 1.35E+04	M/SEC
						* # 1 to 1	
	MOVING SHOCK	STANDING SHOCK,		•	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ.	. 2.2618E+03	1.8632E+04	2.8590E+04	ρ.	. 2.6379E+03	2.1589E+04	3.3478E+04
T	1.3391E+02	2.1918E+02	2.5671E+02	T	1.4715E+02	2.4057E+02	2.8328E+02
RHO	1.0404E+01	4.5420E+01	5.3956E+01	RHD	1.0397E+01	4.4359E+01	5.2813E+01
н	4.9677E+02	8.8376E+02 -	1.1004E+03	. Н	5.7926E+02	1.0294E+03	1.2893E+03
<b>A</b> *	1.2598E+01	1.7970E+01	2.0660E+01	Ä	1.3631E+01	1.9694E+01	2.2734E+01
s.	1.8190E+00	1.9267E+00	2.0071E+00		1.8864E+00	1.9992E+00	2.0852E+00
ž.	1.6234E+00	1.8716E+00	. 2.0641E+00	ž,	1.7242E+00	2.0231E+00 "	2.2377E+00
GAME	7.3001E-01	7.8723E-01	8.0550E-01	GAME			8.1533E-01
U	3.5010E+01	8.0451E+00	8.3583E+00	U	7.3231E-01	7.9691E-01	
	3.30106401	8.04312400	8.33835 400	U	3.7808E+01	8.8810E+00	9.2660E+00
SPEC I	ES	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	
			•	Fi .		•	
E-	3.8401E-01	4.6571E-01	5.1554E-01	E-	4.2002E-01	5.0570E-01	5.5311E-01
A	2.5591E-01	1.5629E-01	9.7729E-02	Α .	2.0383E-01	1.0761E-01	6.1780E-02
A+	3.3617E-01	2.9207E-01	2.6307E-01	A+	3.3236E-01	2.7167E-01	2.2722E-01
A++	2-3888E-02	8.4156E-02	1-1854E-01	A++	4.3687E-02	1.1103E-01	1.4786E-01
A+++	1.81216-05	1.7742E-03	5.0999E-03	A+++ .	9.5918E-05	3.9754E-03	9-9283E-03
A++++	7.7435E-11	1.8612E-06	2.1130E-05	A++++	1.8601E-09	1.0474E-05	9.5576E-05
AV	1.9461E-18	7.4893E-11	5.23956-09	AV	3.2529E-16	1.3858E-09	7.0639E-08
AVI	1.6270E-28	7.9537E-17	5.7107E-14	ĀVI	2.9908E-25	6.5933E-15	3.0417E-12
AVII	9.9050E-42	1.31236-24	1.7558E-20	IIVA	4.3081E-37	7.0377E-22	5.0325E-18
AVIII	6.0781E-58	2.4696E-34	1.0933E-28	IIIVA	1.0730E-51	1.2165E-30	2.3028E-25
			·				
•				•			
P1 =	2.00E+05 N/SQ-M	. US1= 1↓30E÷04	MYŞEC	P1 = 2.	.00E+05 N/SQ-N	, US1= 1-40E+0	4 M/SEC
P1 =				P1 = 2.		,	
P1 =	MOVING SHOCK	STANDING SHÓCK	REFLECTED SHOCK	. 4	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р'	MOVING SHOCK	STANDING SHOCK 2.0083E+04	REFLECTED SHOCK	P	MOVING SHOCK	STANDING SHOCK 2.3153E+04	REFLECTED SHOCK 3.6102E+04
P'	MOVING SHOCK 2.4463E+03 1.4063E+02	STANDING SHOCK 2.0083E+04 2.2984E+02	REFLECTED SHOCK 3.0974E+04 2.6987E+02	P	MOVING SHOCK 2.8368E+03 1.5354E+02	STANDING SHOCK 2.3153E+04 2.5144E+02	REFLECTED SHOCK 3.6102E+04 2.9714E+02
P T RHO	#DVING SHOCK 2.4463E+03 1.4063E+02 1.0397E+01	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01	P T RHO	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01	STANDING SHOCK 2.3153E+04 2.5144E+02 4.3864E+01	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01
P T RHO	MOVING SHOCK -2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03	P T RHO H	MOVING SHOCK 2.8368E+03 1.5354E+02	STANDING SHOCK 2.3153E+04 2.5144E+02 4.3864E+01 1.1064E+03	REFLECTED SHOCK 3.6102E+04 2.9714E+02 '5.2258E+01 1.3900E+03
P T RHO H	MOVING SHOCK -2.4463E+03 1.4063E+02 1.0397E+01 5:3722E+02 1.3109E+01	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01	REFLECTED SHOCK 3.097 4E+04 2.698 TE+02 5.3354E+01 1.1929E+03 2.1690E+01	P T RHO	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01	STANDING SHOCK 2.3153E+04 2.5144E+02 4.3864E+01 1.1064E+03 2.0565E+01	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01
P T RHO H A S	MOVING SHOCK -2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03	P T RHO H	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02	STANDING SHOCK 2.3153E+04 2.5144E+02 4.3864E+01 1.1064E+03	REFLECTED SHOCK 3.6102E+04 2.9714E+02 '5.2258E+01 1.3900E+03
P T RHO H	MOVING SHOCK -2.4463E+03 1.4063E+02 1.0397E+01 5:3722E+02 1.3109E+01	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01	REFLECTED SHOCK 3.097 4E+04 2.698 TE+02 5.3354E+01 1.1929E+03 2.1690E+01	P T RHO H	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01	STANDING SHOCK 2.3153E+04 2.5144E+02 4.3864E+01 1.1064E+03 2.0565E+01	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01
P T RHO H A S	MOVING SHOCK -2.4463E+03 1.4063E+02 1.0397E+01 5:3722E+02 1.3109E+01 1.8528E+00	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00	P T RHO H A S	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00	STANDING SHOCK 2.3153E+04 2.5144E+02 4.3864E+01 1.1064E+03 2.0565E+01 2.0347E+00	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00
P T RHO H A S	MOVING SHOCK 2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02 1.3109E+01 1.8528E+00 1.673IE+00	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00	P T RHO H A S Z	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00	STANDING SHOCK 2-3153E+04- 2-5144E+02 4-3864E+01 1-1064E+03 2-0565E+01 2-0347E+00 2-0992E+00	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00
P T RHO H A S	MOVING SHOCK 2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02 1.3109E+01 1.8528E+00 1.6731E+00 7.3037E-01 3.6410E+01	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00 7.9228E-01	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E-01 8.8076E+00	P T RHO H A S Z GAME	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01	\$TANDING SHOCK 2.3153E+04 2.5144E+02 4.3864E+01 1.1064E+03 2.0565E+01 2.0347E+00 2.0992E+00 8.0126E-01	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01
P T RHO H A S Z GAME U	#MOVING SHOCK 2.4463E+02 1.4063E+02 1.0397E+01 5:3722E+02 1.3109E+01 1.8528E+00 1.6731E+00 7.3037E-01 3.6410E+01	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00 7.9228E-01 8.4544E+00	REFLECTED SHOCK 3.097 4E+04 2.698 7E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E-01 8.8076E+00	P T RHO H A S Z GAME U	MOVING SHOCK 2.8368E+03 1.5356E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3568E-01 3.9209E+01	\$TANDING SHOCK 2.3153E+04 2.5144E+02 4.3864E+01 1.1064E+03 2.0565E+01 2.0347E+00 2.0992E+00 8.0126E-01 9.3118E+00	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01 9.7437E+00
P T RHO H A S Z GAME U	MOVING SHOCK 2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02 1.3109E+01 1.8528E+00 1.6731E+00 7.3037E-01 3.6410E+01	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00 7.9228E-01 8.4544E+00  - MOLE FRACTIONS 4.8646E-01	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E-01 8.8076E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01 3.9209E+01	STANDING SHOCK 2.3153E+04 2.5154E+02 4.3868E+01 1.1064E+03 2.0565E+01 2.0347E+00 2.0992E+00 8.0126E-01 9.3118E+00  - MOLE FRACTIONS 5.2364E-01	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01 9.7437E+00
P T RHO H A S Z GAME U SPECI	MOVING SHOCK 2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02 1.3109E+01 1.8528E+00 1.6731E+00 7.3037E-01 3.6410E+01  ES 4.0232E-01	STANDING SHOCK 2.0083E+04 2.298E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00 7.9228E-01 8.4544E+00  - MOLE FRACTIONS 4.8646E-01 1.3007E-01	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E-01 8.8076E+00	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 2.8368E+03 1.5356E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01 3.9209E+01	STANDING SHOCK 2.3153E+04 2.5144E+02 4.3864E+01 1.1064E+03 2.0565E+01 2.0347E+00 2.0992E+00 8.0126E-01 9.3118E+00  - MOLE FRACTIONS 5.2364E-01 8.8449E-02	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01 9.7437E+00
P T RHO H A S Z GAME U SPECI	#IDVING SHOCK 2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02 1.3109E+01 1.8528E+00 1.6731E+00 7.3037E-01 3.6410E+01  ES 4.0232E-01 7.2874E-01 3.3563E-01	STANDING SHOCK 2.0083E+04 2.0984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00 7.9228E-01 8.4554E+00  - MOLE FRACTIONS 4.8646E-01 1.3007E-01 2.8322E-01	REFLECTED SHOCK 3.097 4E+04 2.698 7E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E-01 8.8076E+00	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01 3.9209E+01	\$74NDING \$40CK 2.3153E+04 2.5144E+02 4.3864E+01 1.1064E+03 2.0565E+01 2.0347E+00 2.0992E+00 8.0126E+01 9.3118E+00  - MOLE FRACTIONS 5.2364E+01 8.8449E+02 2.5784E+01	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01 9.7437E+00  5.6989E-01 4.8433E-02 2.0703E-01
P T RHO H A S Z GAME U SPECI E-A A+A+	#MOVING SHOCK -2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02 1.3109E+01 1.6731E+00 7.3037E-01 3.6410E+01  ES 4.0232E-01 2.2874E-01 3.3563E-01 3.3278E-02	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00 7.9228E-01. 8.4544E+00  - MOLE FRACTIONS 4.8646E-01 1.3007E-01 2.8322E-01 9.7536E-02	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E-01 8.8076E+00	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01 3.9209E+01	STANDING SHOCK 2.3153E+04 2.5154E+02 4.386E+01 1.1064E+03 2.0565E+01 2.0347E+00 2.0992E+00 8.0126E-01 9.3118E+00  - MOLE FRACTIONS 5.2364E-01 8.8449E-01 1.2446E-01	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01 9.7437E+00  5.6989E-01 4.8433E-02 2.0703E-01 1.6125E-01
PTTRHOHASSZGAMEU	#MOVING SHOCK 2.4463E+03 1.4063E+02 1.0397E+01 5:3722E+02 1.3109E+01 1.8528E+00 1.6731E+00 7.3037E-01 3.6410E+01  ES 4.0232E-01 2.2874E-01 3.3563E-01 3.3278E-02 4.4535E-05	STANDING SHOCK 2.0083E+04 2.2984E+02 4.487ZE+01 9.5528E+02 1.8831E+01 1.963ZE+00 1.9473E+00 7.9228E-01 8.4544E+00  - MOLE FRACTIONS 4.8646E-01 1.3007E-01 2.832ZE-01 9.7536E-02 2.7178E-03	REFLECTED SHOCK 3.097 4E+04 2.698 7E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E+01 8.8076E+00  5.3513E+01 7.7965E+02 2.4604E+01 1.3357E+01 7.2535E+03	P T RHO H A S Z GAME U SPECIES E-A A++++	MOVING SHOCK 2.8368E+03 1.5358E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01 3.9209E+01 4.3719E-01 1.8084E-01 3.2696E-01 5.4834E-02 1.8679E-04	\$\text{STANDING SHOCK} 2.3153E+04   2.5144E+02   4.3864E+01   1.1064E+03   2.0565E+01   2.0347E+00   2.0992E+00   8.0126E+01   9.3118E+00   - MOLE FRACTIONS   5.2364E+01   8.8449E+02   2.5784E+01   1.2446E+01   5.5988E+03   5.988E+03	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01 9.7437E+00  5.6989E-01 4.8433E-02 2.0703E-01 1.6125E-01
P T RHO H A S Z GAME U SPECI E A A A A A A A A A A A A A A A A A A	#MOVING SHOCK -2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02 1.3109E+01 1.6731E+00 7.3037E-01 3.6410E+01  ES 4.0232E-01 2.2874E-01 3.3563E-01 3.3278E-02	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00 7.9228E-01. 8.4544E+00  - MOLE FRACTIONS 4.8646E-01 1.3007E-01 2.8322E-01 9.7536E-02	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E-01 8.8076E+00	P T RHO H A S Z GAME U SPECIES E- A A+	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01 3.9209E+01	STANDING SHOCK 2.3153E+04 2.5154E+02 4.386E+01 1.1064E+03 2.0565E+01 2.0347E+00 2.0992E+00 8.0126E-01 9.3118E+00  - MOLE FRACTIONS 5.2364E-01 8.8449E-01 1.2446E-01	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+00 2.3250E+00 8.2043E-01 9.7437E+00  5.6989E-01 4.8433E-02 2.0703E-01 1.6125E-01 1.3204E-02 1.8681E-04
PTTRHOHASSZGAMEU	#MOVING SHOCK 2.4463E+03 1.4063E+02 1.0397E+01 5:3722E+02 1.3109E+01 1.8528E+00 1.6731E+00 7.3037E-01 3.6410E+01  ES 4.0232E-01 2.2874E-01 3.3563E-01 3.3278E-02 4.4535E-05	STANDING SHOCK 2.0083E+04 2.2984E+02 4.487ZE+01 9.5528E+02 1.8831E+01 1.963ZE+00 1.9473E+00 7.9228E-01 8.4544E+00  - MOLE FRACTIONS 4.8646E-01 1.3007E-01 2.832ZE-01 9.7536E-02 2.7178E-03	REFLECTED SHOCK 3.097 4E+04 2.698 7E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E+01 8.8076E+00  5.3513E+01 7.7965E+02 2.4604E+01 1.3357E+01 7.2535E+03	P T RHO H A S Z GAME U SPECIES E-A A++++	MOVING SHOCK 2.8368E+03 1.5358E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01 3.9209E+01 4.3719E-01 1.8084E-01 3.2696E-01 5.4834E-02 1.8679E-04	\$\text{STANDING SHOCK} 2.3153E+04   2.5144E+02   4.3864E+01   1.1064E+03   2.0565E+01   2.0347E+00   2.0992E+00   8.0126E+01   9.3118E+00   - MOLE FRACTIONS   5.2364E+01   8.8449E+02   2.5784E+01   1.2446E+01   5.5988E+03   5.988E+03	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01 9.7437E+00  5.6989E-01 4.8433E-02 2.0703E-01 1.6125E-01
P T RHO H A S Z GAME U SPECI E A A A A A A A A A A A A A A A A A A	#IOVING SHOCK 2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02 1.3109E+01 1.8528E+00 1.6731E+00 7.3037E-01 3.6410E+01  ES	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00 7.9228E-01 8.4544E+00  - MOLE FRACTIONS 4.8646E-01 1.3007E-01 2.8322E-01 9.7536E-02 2.7178E-03 4.6030E-06	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E-01 8.8076E+00	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01 3.9209E+01 	STANDING SHOCK 2.3153E+04 2.5154E+02 4.386EE+01 1.1064E+03 2.0565E+01 2.0347E+00 2.0992E+00 8.0126E-01 9.3118E+00  - MOLE FRACTIONS  5.2364E-01 8.8449E-02 2.5784E-01 1.2446E-01 5.5988E-03 2.2269E-05 5.0174E-09	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01 9.7437E+00  5.6989E-01 4.8433E-02 2.0703E-01 1.6125E-01 1.3204E-02 1.8681E-04 2.2742E-07
P T RHO H A S Z GAME U SPEC I E - A + A + + A + + A + + A + + A + + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A + A	#MOVING SHOCK -2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02 1.3109E+01 1.6731E+00 7.3037E-01 3.6410E+01  ES 4.0232E-01 2.2874E-01 3.3563E-01 3.3278E-02 4.4535E-05 4.2558E-10 2.9996E-17	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00 7.9228E-01. 8.4544E+00  - MOLE FRACTIONS 4.8646E-01 1.3007E-01 2.8322E-01 9.7536E-02 2.7178E-03 4.6030E-06 3.4404E-10	REFLECTED SHOCK 3.0974E+04 2.6987E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E-01 8.8076E+00  5.3513E-01 7.7965E-02 2.4604E-01 1.3357E-01 7.2535E-03 4.6516E-05 2.0309E-08	P T RHO H A S Z GAME U SPECIES E-A A A+++++ A++++ AV	MOVING SHOCK 2.8368E+03 1.5358E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01 3.9209E+01 1.8084E-01 3.2696E-01 5.4834E-02 1.8679E-04 6.8267E-09 2.6966E-15 6.8138E-24	STANDING SHOCK 2.3153E+04 2.5154E+02 4.3864E+01 1.1064E+03 2.0565E+01 2.0347E+00 2.0992E+00 8.0126E-01 9.3118E+00  - MOLE FRACTIONS 5.2364E-01 8.8449E-02 2.5784E-01 1.2446E-01 5.5988E-03 2.2269E-05 5.0174E-09 4.6666E-14	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01 9.7437E+00  5.6989E-01 4.8433E-02 2.0703E-01 1.6125E-01 1.3204E-02 1.8681E-04 2.2742E-07 1.8309E-11
PTRHOHASS GAME USPECTEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	#IDVING SHOCK 2.4463E+03 1.4063E+02 1.0397E+01 5.3722E+02 1.3109E+01 1.8528E+00 1.6731E+00 7.3037E-01 3.6410E+01  ES 4.0232E-01 2.22874E-01 3.3563E-01 3.3278E-02 4.4535E-05 4.2558E-10 2.9996E-17 8.9529E-17	STANDING SHOCK 2.0083E+04 2.2984E+02 4.4872E+01 9.5528E+02 1.8831E+01 1.9632E+00 1.9473E+00 7.9228E-01 8.4544E+00  - MOLE FRACTIONS 4.8646E-01 1.3007E-01 2.8322E-01 9.7536E-02 2.7178E-03 4.6030E-06 3.4404E-10 7.9709E-16	REFLECTED SHOCK 3.097 4E+04 2.698 7E+02 5.3354E+01 1.1929E+03 2.1690E+01 2.0465E+00 2.1511E+00 8.1041E-01 8.8076E+00  5.3513E-01 7.7965E-02 2.4604E-01 1.3357E-01 7.2535E-03 4.6516E-05 2.0309E-08 4.5124E-13	P T RHO H A S Z GAME U SPECIES E-A A+A+A+A+A+AVI	MOVING SHOCK 2.8368E+03 1.5354E+02 1.0399E+01 6.2288E+02 1.4165E+01 1.9197E+00 1.7768E+00 7.3548E-01 3.9209E+01 4.3719E-01 1.8084E-01 3.2696E-01 5.4834E-02 1.8679E-04 6.8267E-09 2.6966E-15	STANDING SHOCK 2.3153E+04 2.5154E+02 4.386EE+01 1.1064E+03 2.0565E+01 2.0347E+00 2.0992E+00 8.0126E-01 9.3118E+00  - MOLE FRACTIONS  5.2364E-01 8.8449E-02 2.5784E-01 1.2446E-01 5.5988E-03 2.2269E-05 5.0174E-09	REFLECTED SHOCK 3.6102E+04 2.9714E+02 5.2258E+01 1.3900E+03 2.3808E+01 2.1238E+00 2.3250E+00 8.2043E-01 9.7437E+00  5.6989E-01 4.8433E-02 2.0703E-01 1.6125E-01 1.3204E-02 1.8681E-04 2.2742E-07

<b>P1·</b> =	2.00E+05 N/SQ-M	. US1= 1.45E+0	4 M/SEC .		P1 = 2	2.00E+05 N/SQ-M	US1= 1.55E+0	4 M/SEC
:								
•							STANDING CHOCK	REFLECTED SHOCK
	MOVING SHOCK	STANDING SHOCK			ρ·	MOVING SHOCK		4.4480E+04
P T	3.0430E+03	2.4759E+04	3.8812E+04			3.4759E+03	2-8026E+04	
	1.5986E+02	2.6244E+02	3.1150E+02		Ţ	1.7245E+02	2.8494E+02	3.4151E+02
RHO	1.0397E+01	4.3364E+01	5.1634E+01		RHD	1.0377E+01	4.2237E+01	5.0339E+01
н -	6.6810E+02	1.1861E+03	1.4946E+03		H	7.6324E+02	1.3529E+03	1.7160E+03
A	1.4712E+01	2.1445E+01	2.4914E+01	• •	A	1.5834E+01	2.3240E+01	2.7190E+01
S	1.9528E+00	2.0700E+00	2.1626E+00		S	2.0182E+00	2-1400E+00	2.2388E+00
Z	1.8309E+00	2.1755E+00	2.4131E+00		Z	1.9424E+00	2.3287E+00	2.5873E+00 ·
GAME	7.3947E-01	8.0548E-01	8.2575E-01		GAME	7.4852E-01	8.1396E-01	8.3670E-01
U	4.0609E+01	9.7470E+00	1.0225E+01		U	4.3396E+01	1.0685E+01	1.1236E+01
				•	,	•		
SPECIE	s	- MOLE FRACTIONS			SPECIES		- MOLE FRACTIONS	
E-	4.5381E-01	5.4034E-01	5.8560E-01		E-	4.8517E-01	5.7058E-01	6.1350E-01
A	1.5955E-01	7.2247E-02	3.7505E-02		A	1.2204E-01	4.7167E-02	2.1873E-02
A+	3.1981E-01	2.4220E-01	1.8603E-01		A+	3.0132E-01	2.0729E-01	1.4479E-01
A++	6.6495E-02	1.3754E-01	1.7338E-01		A++	9.0557E-02	1.6175E-01	1.91886-01
A+++	3.3647E-04	7.6273E-03	1.7138E-02		A+++	9.1363E-04	1.3060E-02	2.6861E-02
A++++	2.1887E-08	4.4591E-05	3.5014E-04	·	A++++	1.6513E-07	1.5471E-04	1.0837E-03
AV	1.8155E-14	1.6527E-08			AV	5.1074E-13	1.4270E-07	5.1361 E-06
AVI	1.1539E-22	2.8749E-13	1.0022E-10		AVE	1.6740E-20	7.7908E-12	2.2464E-09
AVII	2.0827E-33	1.5155E-19	7.3512E-16		IVA	2.5275E-30	1.6661E-17	6.2168F-14
IIIVA	1.0204E-46	1.7448E-27	1.9266E-22		IIIVA	1.5134E-42	9.9813E-25	7.6725E-20
P1 =	2.00E+05 N/SQ-M	, US1= 1.50E+0	4 M/SEC		P1 = 2	2.00E+05 N/SQ-M	, US1= 1.60E+0	4 M/SEC
P1 =	2-00E+05 N/SQ-M	, US1= 1.50E+0	4 M/SEC	• • : : : •	P1 = 2			
	2-00E+05 N/SQ-N	• • • • • • • • • • • • • • • • • • • •	4 M/SEC	• • • • • • •		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
		• • • • • • • • • • • • • • • • • • • •	: : : :	• • • • • • • • • • • • • • • • • • • •	P1 = 2		STANDING SHOCK 2.9695E+04	REFLECTED SHOCK 4.7375E+04
p T	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	• • • • • • • • • • • • • • • • • • • •	P T	MOVING SHOCK	STANDING SHOCK 2.9695E+04 2.9627E+02	REFLECTED SHOCK 4.7375E+04 3.5696E+02
	MOVING SHOCK 3.2561E+03	STANDING SHOCK 2.6386E+04	REFLECTED SHOCK 4.1589E+04 3.2616E+02	• • • • • • • • • • • • • • • • • • • •	Р	MOVING SHOCK 3.7031E+03	STANDING SHOCK 2.9695E+04	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01
p T	MOVING SHOCK 3-2561E+03 1-6621E+02 1-0383E+01	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01	· • ; ; ; ·	P T RHD	MOVING SHOCK 3.7031E+03 1.7888E+02	STANDING SHOCK 2.9695E+04 2.9627E+02	REFLECTED SHOCK 4.7375E+04 3.5696E+02
P T RHO	MOVING SHOCK 3-2561E+03 1-6621E+02	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01 1.6035E+03		P T	MOVING SHOCK 3.7031E+03 1.7888E+02 1.0346E+01	STANDING SHOCK 2.9695E+04 2.9627E+02 4.1706E+01	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01
P T RHO H	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1488E+02	STANDING SHOCK 2-6386E+04 2-7357E+02 4-2831E+01 1-2685E+03 2-2334E+01	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01	**: : * *	P T RHD	MOVING SHOCK 3.7031E+03 1.788E+02 1.0346E+01 8.1319E+02	STANDING SHOCK 2.9695E+04 2.9627E+02 4.1706E+01 1.4405E+03	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03
P T RHO H	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1488E+02 1.5274E+01 1.9861E+00	STANDING SHOCK 2-6386E+04 2-7357E+02 4-2831E+01 1-2685E+03 2-2334E+01 2-1049E+00	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00		P T RHD H	MOVING SHOCK 3.7031E+03 1.7888E+02 1.0346E+01 8.1319E+02 1.6419E+01	STANDING SHOCK 2.9695E+04 2.9627E+02 4.1706E+01 1.4405E+03 2.4138E+01	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.6330E+03 2.8337E+01
P T RHO H A	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1438E+02 1.5274E+01 1.9861E+00 1.8868E+00	STANDING SHOCK 2-6386E+04 2-7357E+02 4-2831E+01 1-2685E+03 2-2334E+01 2-1049E+00 2-2518E+00	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00 2.5000E+00		P T RHO H A S	MOVING SHOCK 3.7031E+03 1.7888E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+00	STANDING SHOCK 2-9695E+04 2-9627E+02 4-1706E+01 1-4405E+03 2-4136E+01 2-1737E+00 2-4032E+00	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.6330E+03 2.8337E+01 2.2756E+00
P T RHO H A S	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1488E+02 1.5274E+01 1.9861E+00	STANDING SHOCK 2-6386E+04 2-7357E+02 4-2831E+01 1-2685E+03 2-2334E+01 2-1049E+00	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00	·•: : · ·	P T RHO H . A	MOVING SHOCK 3.7031E+03 1.7888E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00	STANDING SHOCK 2-9695E+04 2-9627E+02 4-1706E+01 1-4405E+03 2-4138E+01 2-1737E+00	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03 2.8337E+01 2.2756E+00 2.6718E+00
P T RHO H A S Z GAME	MOVING SHOCK 3-256LE+03 1-662LE+02 1-0383E+01 7-1488E+02 1-5274E+01 1-9861E+00 1-8868E+00 7-4395E-01 4-2006E+01	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 2.2518E+00 8.0968E-01	REFLECTED SHOCK 4.1589€+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00 2.5000E+00 8.3116E-01 1.0730E+01		P T RHD H A S Z GAME	MOVING SHOCK 3.7031E+03 1.7888E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+00 7.5316E-01 4.4788E+01	STANDING SHOCK 2.9695E+04 2.962TE+02 4.1706E+01 1.4405E+03 2.4138E+01 2.173TE+00 2.403ZE+00 6.1829E+01	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03 2.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01
P T RHO H A S Z GAME U	MOVING SHOCK 3-2561E+03 1-6621E+02 1-0383E+01 7-1488E+02 1-5274E+01 1-9861E+00 1-8868E+00 7-4395E-01 4-2006E+01	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 2.2518E+00 8.0968E-01 1.0185E+01	REFLECTED SHOCK 4.1589€+04 3.2616€+02 5.1005E+01 1.6033E+03 2.6033E+01 2.2006E+00 2.5000E+00 1.0730E+01		P T RHD H A S Z GAME U	MOVING SHOCK 3.7031E+03 1.788E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+00 7.5316E-01 4.4788E+01	STANDING SHOCK 2.9695E+04 2.9695E+04 2.9627E+02 4-1706E+01 1.4405E+03 2.4138E+01 2.1737E+00 2.4032E+00 6.1829E-01 1.1133E+01	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03 2.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01
P T RHO H A S Z GAME U SPEC 16	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1438E+02 1.5274E+01 1.9861E+00 7.4395E-01 4.2006E+01	\$TANDING \$HOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 2.2518E+00 8.0968E-01 1.0185E+01	REFLECTED SHOCK 4.1589€+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00 2.5000E+00 6.3116E-01 1.0730E+01		PTRHDHASS2GAMEU	MOVING SHOCK 3.7031E+03 1.7888E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+00 7.5316E-01 4.4788E+01	\$TANDING \$MOCK 2.9695E+04 2.9627E+02 4.1706E+01 1.4405E+03 2.4138E+01 2.1737E+00 2.4032E+00 6.1829E-01 1.1133E+01 - MOLE FRACTIONS 5.8389E-01	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03 2.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01
P T RHO H A S Z GAME U SPEC LE	MOVING SHOCK 3-2561E+03 1-6621E+02 1-0383E+01 7-1438E+02 1-5274E+01 1-9861E+00 1-886EE+00 7-4395E-01 4-2006E+01 S	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 2.2518E+00 8.0968E-01 1.0185E+01  - MOLE FRACTIONS 5.5592E-01 5.8632E-02	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00 2.5000E+00 8.3116E-01 1.0730E+01  5.9999E-01 2.8833E-02		PT TRHO H A S Z GAME U SPECIES	MOVING SHOCK 3.7031E+03 1.7888E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+00 7.5316E-01 4.4788E+01	\$TANDING \$HOCK 2-9695E-04 2-9627E-02 4-1706E-01 1.4405E-03 2-4138E-01 2-1737E-00 2-4032E-00 6-1829E-01 1-1133E+01 - MOLE FRACTIONS 5-8389E-01 3-7929E-02	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01  6.2571E-01 1.6560E-02
P T RHO H A S GAME U SPEC LE E- A	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1488E+02 1.5274E+01 1.9861E+00 1.8868E+00 7.4395E-01 4.2006E+01  S 4.7000E-01 1.3973E-01 3.1110E-01	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 2.2518E+00 8.0968E-01 1.0185E+01  - MOLE FRACTIONS 5.5592E-01 5.8632E-02 2.2525E-01	REFLECTED SHOCK 4.1589€+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00 2.5000E+00 1.0730E+01 1.0730E+01 2.8835E-02 1.6526E-01		PTRHOHASSZGAMEU	MOVING SHOCK 3.7031E+03 1.788E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+0 7.5316E-01 4.4788E+01	STANDING SHOCK 2.9695E+04 2.9627E+02 4.1706E+01 1.4405E+03 2.4138E+01 2.1737E+00 2.4032E+00 8.1829E+01 1.1133E+01  - MOLE FRACTIONS 5.8389E+01 3.7929E+02 1.8943E+01	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03 2.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1488E+02 1.5274E+01 1.9861E+00 1.8868E+00 7.4395E-01 4.2006E+01 S	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 2.2518E+00 8.0968E-01 1.0185E+01  - MOLE FRACTIONS 5.5592E-01 5.8632E-02 2.2525E-01 1.5002E-01	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00 2.5000E+00 6.3116E-01 1.0730E+01 2.8835E+02 1.6526E+01 1.8362E+01		PT RHD H A S Z GAME U SPECIES	MOVING SHOCK 3.7031E+03 1.7888E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+00 7.5316E-01 4.4788E+01	STANDING SHOCK 2.9695E+04 2.9627E+02 4.1706E+01 1.4405E+03 2.4138E+01 2.1737E+00 2.4032E+00 8.1829E-01 1.1133E+01  - MOLE FRACTIONS 5.8389E-01 3.7929E-02 1.8943E-01 1.7207E-01	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03 2.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01
P T RHO H A S Z GAME U SPECIE E-A A++ A+++	MOVING SHOCK 3.2561E+03 1.662E+02 1.0383E+01 7.1488E+02 1.5274E+01 1.9861E+00 1.8868E+00 7.4395E-01 4.2006E+01  S 4.7000E-01 1.3973E-01 3.1110E-01 7.8594E-02 5.7191E-04	STANDING SHOCK 2.6386+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 2.2518E+00 8.0968E-01 1.0185E+01 - MOLE FRACTIONS 5.5592E-01 5.8632E-02 2.2525E-01 1.50096E-01 1.0096E-01	REFLECTED SHOCK 4.1589€+04 3.2616€+02 5.1005E+01 1.6033E+01 2.2006E+00 2.5000E+00 8.3116E-01 1.0730E+01 2.8835E-02 1.6526E-01 1.8362E-01 2.1659E-02		P T RHO H A S G GAME U SPECIES E- A A+ A++	MOVING SHOCK 3.7031E+03 1.788E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.009E+00 7.5316E-01 4.4788E+01	STANDING SHOCK 2.9695E+04 2.9627E+02 4.1706E+01 1.4405E+03 2.4133E+01 2.1737E+00 0.1829E-01 1.1133E+01  - MOLE FRACTIONS 5.8389E-01 3.7929E-02 1.8943E-01 1.7207E-01 1.607E-01	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01  6.2571E-01 1.6560E-02 1.2583E-01 1.9762E-01 3.2476E-02
P T RHO H A S Z GAME U SPECIE E-A A+A++++A+++	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1488E+02 1.5274E+01 1.9861E+00 1.8868E+00 7.4395E-01 4.2006E+01  S 4.7000E-01 1.3973E-01 3.1110E-01 7.8594E-02 5.7191E-04 6.3513E-08	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 8.0968E-01 1.0185E+01  - MOLE FRACTIONS 5.5592E-01 5.8632E-02 2.2525E-01 1.5002E-01 1.0096E-02 8.4752E-05	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00 2.5000E+00 6.3116E-01 1.0730E+01 2.8835E-02 1.6526E-01 1.8362E-01 2.1659E-02 6.2544E-04		PT THD H A S Z GAME U SPECIES E-A A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A	MOVING SHOCK 3.7031E+03 1.788E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+00 7.5316E-01 4.4788E+01 5.0023E-01 1.0534E-01 2.9004E-01 1.0297E-01 1.4189E-03 4.1023E-07	\$TANDING \$HOCK 2.9695E+04 2.9627E+02 4.1706E+01 1.4405E+03 2.4136E+01 2.1737E+00 2.4032E+00 8.1829E-01 1.1133E+01  - MOLE FRACTIONS 5.8389E-01 3.7929E-02 1.8943E-01 1.7207E-01 1.6418E-02 2.6763E-04	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03 2.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01  6.2571E-01 1.6560E-02 1.2583E-01 1.9762E-01 3.2476E-02 1.7890E-03
P T RHO H A S Z GAME U SPECIE E-A A+++ A++++ A++++	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1488E+02 1.5274E+01 1.9861E+00 1.8868E+00 7.4395E-01 4.2006E+01  S 4.7000E-01 1.3973E-01 3.1110E-01 7.8594E-02 5.7191E-04 6.3513E-08 1.0899E-13	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 2.2518E+00 8.0968E-01 1.0185E+01  - MOLE FRACTIONS 5.5592E-01 5.8632E-02 2.2525E-01 1.5002E-01 1.0096E-02 8.4752E-05 5.0125E-08	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00 2.5000E+00 6.3116E-01 1.0730E+01  5-999E-01 2.8835E-02 1.6526E-01 1.8362E-01 2.1659E-02 6.2544E-04 1.9205E-06		P T RHD H A S Z GAME U SPECIES E-A A+A A++A A++A	MOVING SHOCK 3.7031E+03 1.7888E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+00 7.5316E-01 4.4788E+01 5.0023E-01 1.0534E-01 2.9004E-01 1.0297E-01 1.4189E-03 4.1023E-07 2.3233E-12	STANDING SHOCK 2.9695E+04 2.9627E+02 4.1706E+01 1.4405E+03 2.4138E+01 2.1737E+00 2.4032E+00 8.1829E-01 1.1133E+01  - MOLE FRACTIONS 5.8389E-01 3.7929E-02 1.8943E-01 1.6418E-02 2.6763E-04 3.728E-04	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03 2.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01  6.2571E-01 1.6560E-02 1.2583E-01 1.9762E-01 3.2476E-02 1.7890E-03 1.2709E-05
P T RHO H A S Z GAME U SPECIE E-A A++++ A++++ AVI	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1488E+02 1.5274E+01 1.9861E+00 1.8868E+00 7.4395E-01 4.2006E+01  S 4.7000E-01 1.3973E-01 3.1110E-01 7.8594E-02 5.7791E-04 6.3513E-08 1.0489E-13 1.5714E-21	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 2.2518E+00 8.0968E-01 1.0185E+01  - MOLE FRACTIONS 5.5592E+01 5.8632E-02 2.2525E-01 1.5002E-01 1.0096E-02 8.4752E-05 5.0125E-08 1.5681E-12	REFLECTED SHOCK 4.1589€+04 3.2616E+02 5.1005E+01 1.6033E+03 2.6033E+01 2.2006E+00 2.5000E+00 8.3116E-01 1.0730E+01 2.8835E-02 1.6526E-01 1.8362E-01 2.1659E-02 6.2544E-04 1.9205E-06 4.9035E-10		PTRHOHAS SCAME USPECIES E-AA+A++A+++A+++AVI	MOVING SHOCK 3.7031E+03 1.788E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+00 7.5316E-01 4.4788E+01	STANDING SHOCK 2.9695E+04 2.9627E+02 4.1706E+01 1.4405E+03 2.41386E+01 2.1737E+00 2.4032E+00 8.1829E+01 1.1133E+01  - MOLE FRACTIONS 5.8389E+01 3.7929E+02 1.8943E+01 1.7207E+01 1.6418E+02 2.6763E+04 3.7284E+07 3.4091E+11	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03 2.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01  6.2571E-01 1.6560E-02 1.2583E-01 1.9762E-01 3.2476E-02 1.7890E-03 1.2709E-05 9.1616E-09
P T RHO H A S Z GAME U SPECIE E-A A+++ A++++ A++++	MOVING SHOCK 3.2561E+03 1.6621E+02 1.0383E+01 7.1488E+02 1.5274E+01 1.9861E+00 1.8868E+00 7.4395E-01 4.2006E+01  S 4.7000E-01 1.3973E-01 3.1110E-01 7.8594E-02 5.7191E-04 6.3513E-08 1.0899E-13	STANDING SHOCK 2.6386E+04 2.7357E+02 4.2831E+01 1.2685E+03 2.2334E+01 2.1049E+00 2.2518E+00 8.0968E-01 1.0185E+01  - MOLE FRACTIONS 5.5592E-01 5.8632E-02 2.2525E-01 1.5002E-01 1.0096E-02 8.4752E-05 5.0125E-08	REFLECTED SHOCK 4.1589E+04 3.2616E+02 5.1005E+01 1.6035E+03 2.6033E+01 2.2006E+00 2.5000E+00 6.3116E-01 1.0730E+01  5-999E-01 2.8835E-02 1.6526E-01 1.8362E-01 2.1659E-02 6.2544E-04 1.9205E-06		P T RHD H A S Z GAME U SPECIES E-A A+A A++A A++A	MOVING SHOCK 3.7031E+03 1.7888E+02 1.0346E+01 8.1319E+02 1.6419E+01 2.0513E+00 2.0009E+00 7.5316E-01 4.4788E+01 5.0023E-01 1.0534E-01 2.9004E-01 1.0297E-01 1.4189E-03 4.1023E-07 2.3233E-12	STANDING SHOCK 2.9695E+04 2.9627E+02 4.1706E+01 1.4405E+03 2.4138E+01 2.1737E+00 2.4032E+00 8.1829E-01 1.1133E+01  - MOLE FRACTIONS 5.8389E-01 3.7929E-02 1.8943E-01 1.6418E-02 2.6763E-04 3.728E-04	REFLECTED SHOCK 4.7375E+04 3.5696E+02 4.9675E+01 1.8330E+03 2.8337E+01 2.2756E+00 2.6718E+00 8.4194E-01 1.1761E+01  6.2571E-01 1.6560E-02 1.2583E-01 1.9762E-01 3.2476E-02 1.7890E-03 1.2709E-05

P1 =	2.00E+05 N/SQ-M	US1= 1.65E+0	4 M/SEC		P1 = 2	.00E+05 N/SQ-M	. US1= 1.75E+0	4 M/SEC
			•					
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Р,	3.9369E+03	3.1423E+04	5.0359E+04		P	4.4250E+03	3.4788E+04	5.6473E+04
Ť.	1.8533F+02	3.0809E+02	3.7314E+02		Ť	1.9849E+02		4.0648E+02
RHD	1.0314E+01	4.1145E+01	4.8952E+01		RHO .	1.0232E+01	3.9859E+01	4.7504E+01
H	8.6469E+02	1.5309E+03	1.9544E+03		H	9.7242E+02	1.7181E+03	2.2089E+03
Ä	1.7005E+01	2.5068E+01	2.9516E+01			1.8195E+01	2.6945E+01	3. 1866E +01
Š	2.0838E+00	2.2078E+00	2.3127E+00	; · •	Š	2.1482E+00	2.2748E+00	2.3854E+00
Ž.	2.0596E+0C	2.4789E+00	2.7570E+00		Ž.	2.1788E+00	2.6275E+00	2.9246E+00.
GAME	7.5758E-01	8.2282E-01	8.4684E-01		GAME	7.6549E-01	8.3189E-01	8.5418E-01
U	4.6174E+01	1.1543E+01	1.2313E+01		U	4.8933E+01	1.2548E+01	1.3437E+01
SPEC II	ES	- MOLE FRACTIONS			SPEC IES		- MOLE FRACTIONS	
E-	5.1448E-01	5.9659E-01	6.3728E-01		E-	5.4103E-01	6.1941E-01	6.5807E-01
A	9.0446E-02	3.0149E-02			Ā	6.5312E-02	1.8705E-02	6.8300E-03
Ä+ ·	2.7780E-01	1.7118E-01	1.0790E-01		Ã+	2.5059E-01	1.3626E-01	7.7391E-02
A++	1.1516E-01	1.8129E-01	2.0089E-01		A++	1.3877E-01	1.9489E-01	1.9941E-01
A+++	2.1157E-03	2.0338E-02	3-8641E-02		A+++	4.2935E-03	2.9552E-02	5.1457E-02
A++++	9.4916E-07	4.5250E-04	2.8808E-03		A++++	4.3438E-06	1.1712E-03	6.6907E-03
AV	9.4318E-12	9.4213E-07	3.0331E-05		AV	1.2333E-10	5.1369E-06	1.4551E-04
IVA	1.3395E-18	1.4219E-10	3.5459E-08		IVA	6.4681E-17	1.9538E-09	4.1229E-07
AVII.	1.3186E-27	1.0466E-15	3-2082E-12		AVII	3.3574E-25	4.3968E-14	1.0803E-10
AVIII.	7.2647E-39	2.6771E-22	1.5589E-17		AVIII.	1.3257E-35	4.1402E-20	1.7756E-15
			w.	*				
D1 =	2.00E+05 N/SQ-M	, US1= 1.70E+0	W M/SEC	,	01 - 3	2.00E+05 N/SQ-M	. US1= 1.80E+0	4 44556
F 1 -	21006403 11734-11	, 031- 1.70670	- H/3CC .		P1 - 4	UUC+U3 N/3W-M	* 031- 1-005+0	4 H/SEC
		•	*			•		
	. MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ.	4.1775E+03	3.3098E+04	5.3362E+04	•	P	4.6790E+03	3.6512E+04	5.9590E+04
T	1.9193E+02	3.2013E+02	3.8974E+02		T	2.0518E+02	3.4463E+02	4.2318E+02
RHD	1.0268£+01	4.0471E+01	4.8180E+01		RHO	1.0187E+01	3.9230E+01	4.6840E+01
н	9.1777E+02	1.6234E+03	2.0799E+03		н .	1.0286E+03	1.8155E+03	2.341 2E+03
A	1.7604E+01	2.6013E+01	3.0701E+01		A	1.8793E+01	2.7899E+01	3.3004E+01
<b>S</b> ,	2.1165E+00	2.2420E+00	2.3496E+00		S	2.1799E+00	2.3076E+00	2.4204E+00
Ζ	2.1198E+00	2.5546E+00	2.841 8E+00		Z	2.23865+00	2.7006E+00	3.0063E+00
GAME	7.6173E-01	8.2741E-01	8.5101E-01		GAME	7.6897E-01	8.3628E-01	8.5618E-01
U	4.7555E+01	1.2020E+01	1.2879E+01		U :	5.0306E+01	1.3036E+01	1.3984E+01
SPECI	ES	- MOLE FRACTIONS			SPEC IES		- MOLE FRACTIONS	
E-	5.28256-01	6.0856E-01	6-4811E-01		E-	5.5329E-01	6.2971E-01	6.6736E-01
Ā	7.6944E-02	2.3740E-02	9-1784E-03		A 5	5-5014E-02	1.4602E-02	5-1052E-03
A+	2.6442E-01	1.5313E-01			A+	2.3600E-01	1.2008E-01	6.5192E-02
A++ ·	1.2731E-01		2-0147E-01		A++	1.4983E-01	1.9900E-01	1.9501E-01
A+++.	3.0700E-03	2.4786E-02	4.5102E-02	• .	A+++	5.8677E-03	3.4779E-02	5.7468E-02
A++++	2.0987E-06	7.4325E-04	4.4855E-03		A++++	8.6489E-06	1.8079E-03	9.5750E-03
AV	3.5934E-11	2.2741E-06	6.8729E-05		AV	3.9842E-10	1.1257E-05	2.8818E-04
AVI	1.0033E-17	5.5366E-10	1.2711E-07		IVA	3.8319E-16	6.5982E-09	1.2107E-06
AVII	2.3368E-26	7.2613E-15	1.9956E-11		IIVA	4.2720E-24	2.5006E-13	5.0902E-10
VAIII.	3.5818E-37	3.6551E-21	1.8262E-16		AVIII	4.1728E-34	4.3129E-19	1.4326E-14

P1 = 5.0	00E+05 N/SQ-M;	US1= 2.00E+0	3 M/SEL	P1 = 5.0	00E+05-N/SQ-M	, US1= 2.40E+0	3 M/SEC.
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
	4.7899E+01 ···		2.6471E+02	ρ	6.9069E+01	1.2768E+02	3.8652E+02
	1.2892E+01	1:6278E+01	2.9325E+01		1.8181E+01	2.3401E+01	4.0535E+01
	3.7155E+00	5.1997E+00	9.0254E+00	ŘHD	3.7990E+00	5.4559E+00	9 • 50 5 5E + 00
	1.2892E+01	1.6278E+01	2.9365E+01	H	1.8181E+01	2.3404E+01	4.1559E+01
	: 3.5905E+00 .	4.0345E+00	5.3927E+00	Ä	4.2638E+00	4.8350E+00	6.0836E+00
	-1.1481E+00-			ŝ	1.1771E+00	1.1781E+00	1.1978E+00
ž	1.0000E+00	1.0000E+00	1.0001E+00	. 3	1.0000E+00	1.0000E+00	1.0032E+00
GAME	1.2000E+00	9.9999E-01	9.9154E-01	GAME	9.9996E-01	9.9898E-01	9.1017E-01
U	4.5391E+00	3.2320E+00	3.1744E+00	U	5.4900E+00	3.8040E+00	3.6423E+00
•	4.73722700	. 3.23200.00	311742	•	3.47002.00	3.00402.00	3.04232.00
SPEC IES		- MOLE: FRACTIONS		SPECIES		- MOLE FRACTIONS	,
E=0.1 (0.1)	2.0843E-10	2.9200E-08	1-4372E-04	E-	2.6485E-07	1.1243E-05	3.1452E-03
Ā	1.0000E+00	1.0000E+00	9.9971E-01	A	1.0000E+00	9.9998E-01	9.9371E-01
A+						1.1243E-05	3.1452E-03
	7.2507E-36	2.9200E-08 3.9044E-29	1.4372E-04	A++	2.6485E-07 1.4801E-25	8.8474E-20	
A++			8.0426E-16	A+++			3.1581E-11
A+++	3.7169E-77	8.3372E-62	3.6439E-35		1.0878E-55	5.6775E-44	3.2477E-25
A++++	0.	0.	7.2046E-65	A++++	0.	1.1250E-80	1.4839E-46
AV .	0.	• • •	V• ·		. 0.	2.	5.5420E-75
	`∙0•	0.	0.	AVI	0.	0	0.
AVII	0.	0.	0.	IIVA	. 0.	0.	0.
IIIVA	0.	0.	0.	111VA	0.	0.	0.
	•			i de			
	•						
PI = 5.0	00E+05 N/SU-M.	US1= 2.20E+0	3 M/SEC	P1 = 5.0	00E+05 N/SQ-M	• US1= 2.60E+0	3 M/SEC
PI = 5,0	00E+05 N/SY-M,	US1= 2.20E+0	3 M/SEC	P1 = 5.0	00E+05 N/SQ-M	, US1= 2.60E+0	3 N/SEC
ante de	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
p 45 - 14	MOVING SHOCK	STANDING SHOCK 1.0486E+02	REFLECTED SHOCK 3.2401E+02	P 1	MOVING SHOCK	STANDING SHOCK 1.5209E+02	REFLECTED SHOCK 4.5155E+02
p 40 11	MOVING SHOCK 5.8003E+01 1.5416E+01	STANDING SHOCK 1.0486E+02 1.9658E+01	REFLECTED SHOCK 3.2401E+02 3.5048E+01	P T	MOVING SHOCK 8.1080E+01 2.1183E+01	STANDING SHOCK 1.5209E+02 2.7420E+01	REFLECTED SHOCK 4.5155E+02 8'4.5378E+01
P 4	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00	P T RHO	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00	REFLECTED SHOCK 4.5155E+02 84.5378E+01 889.8768E+00
P 4	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01	P T RHO H	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01	REFLECTED SHOCK 4.5155E+02 264.5378E+01 209.8768E+00 4.8052E+01
P F	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00	REFLECTED SHOCK 3-2401E+02 3-5048E+01 9-2366E+00 3-5312E+01 5-8146E+00	P T RHO H	40VING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00	REFLECTED SHOCK 4-5155E+02 8-4-5378E+01 9-8768E+00 4-8052E+01 6-2343E+00
P 45 T T RHD T T A Y S Y	MQVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00	P T RHO H A S	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00	REFLECTED SHOCK 4.5155E+02 24.5378E+01 27.8768E+00 4.8052E+01 6.2343E+00 1.2108E+00
P F F F F F F F F F F F F F F F F F F F	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00	P T RHO H A S Z	40VING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00 1.0001E+00	REFLECTED SHOCK 4.5155E+02 2.4.5378E+01 2.5.45E+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00
P T RHD H S S	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 1.9264E+00 1.1631E+00 1.0000E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.9989E-01	REFLECTED SMOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01	P T RHO H A S Z GAME	MOVING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00 1.0001E+00 9.9438E-01	REFLECTED SHOCK 4.5155E+02 24.5537 BE+01 39.876 BE+00 4.8052E+01 6.2343E+00 1.210BE+00 1.0075E+00 8.5013E-01
P T RHD H S S	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00	P T RHO H A S Z	40VING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00 1.0001E+00	REFLECTED SHOCK 4.5155E+02 2.4.5378E+01 2.5.45E+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00
P T RHD A S S S GAME	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00	STANDING SMOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.9989E-01 3.5254E+00	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00	P T RHO H A S Z GAME	40VING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00 1.0001E+00 9.9438E-01 4.0947E+00	REFLECTED SHOCK 4.5155E+02 2.4.5378E+01 2.9.8768E+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00
P T RHD H S Z Z Z SPECIES	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 1.0000E+00 5.0154E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.9989E-01	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00	P T RHO H A S Z GAME U	40VING SHOCK 8.1030E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00 1.0001E+00 9.9438E-01	REFLECTED SHOCK 4.5155E+02 2.4.5378E+01 2.9.8768E+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00
P T RHD H A S Z GAME U SPECIES E-	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00	STANDING SMOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.9989E-01 3.5254E+00  MOLE FRACTIONS 8.3631E-07	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00	P T RHO H A S L GAME U SPECIES	40VING SHOCK 8.1030E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00 1.0001E+00 9.9438E-01 4.0947E+00  - MOLE FRACTIONS 8.4684E-05	REFLECTED SHOCK 4.5155E+02 8.4.5378E+01 7.9.8768E+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00
P T T RHD H A S S Z GAME U SPECIES E-A	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.9989E-01 3.5254E+00  MOLE FRACTIONS 8.3631E-07 1.0000E+00	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00	P T RHO H A S L GAME U SPECIES	40VING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00 9.9438E-01 4.0947E+00 - MOLE FRACTIONS 8.4684E-05 9.9983E-01	REFLECTED SHOCK 4.5155E+02 2.4.5378E+01 2.9.8768E+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00 7.4362E-03 9.8513E-01
P T RHD H S Z Z GAME U SPECIES E-A A A+	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00 1.1656E-08 1.0000E+00 1.1656E-08	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.9989E-01 3.5254E+00 MOLE FRACTIONS 8.3631E-07 1.0000E+00 8.3631E-07	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00  8.8513E-04 9.9823E-01 8.8513E-04	P T RHO H A S Z GAME U SPECIES E- A	40VING SHOCK 8.1030E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.219E+00 1.1912E+00 1.0001E+00 9.9438E-01 4.0947E+00  MOLE FRACTIONS 8.4684E-05 9.9983E-01 8.4684E-05	REFLECTED SHOCK 4.5155E+02 4.5378E+01 **9.876BE+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00  7.4362E-03 9.8513E-01 7.4362E-03
P T T RHD H A S S Z GAME U SPECIES E-A	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00 1.1656E-08 1.0000E+00 1.1656E-08 3.4690E-30	STANDING SMOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.9989E-01 3.5254E+00  MOLE FRACTIONS 8.3631E-07 1.0000E+00 8.3631E-07 1.1653E-23	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00	P T RHO H A S Z GAME U SPECIES E-A A+A++	40VING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00 3.1890E-06 9.9999E-01 3.1890E-06 9.3049E-22	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00 1.0001E+00 9.9438E-01 4.0947E+00  - MOLE FRACTIONS 8.4684E-05 9.9983E-01 8.4684E-05 9.2759E-17	REFLECTED SHOCK 4.5155E+02 8.4.5155E+01 8.9.8768E+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00  7.4362E-03 9.8513E-01 7.4362E-03 6.1367E-10
P T RHD H S Z Z GAME U SPECIES E-A A A+	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00 1.1656E-08 1.0000E+00 1.1656E-08	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.9989E-01 3.5254E+00 MOLE FRACTIONS 8.3631E-07 1.0000E+00 8.3631E-07	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00  8.8513E-04 9.9823E-01 8.8513E-04	P T RHO H A S Z GAME U SPECIES E- A	40VING SHOCK 8.1030E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00 3.1890E-06 9.9999E-01 3.1890E-06 9.3049E-22 3.1717E-48	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.219E+00 1.1912E+00 1.0001E+00 9.9438E-01 4.0947E+00  MOLE FRACTIONS 8.4684E-05 9.9983E-01 8.4684E-05	REFLECTED SHOCK 4.5155E+02 4.5378E+01 **9.876BE+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00  7.4362E-03 9.8513E-01 7.4362E-03
P T RHD H A S Z Z GAME U SPECIES E-A A + A + A + A + A + A + A + A + A + A	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00 1.1656E-08 1.0000E+00 1.1656E-08 3.4690E-30	STANDING SMOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.9989E-01 3.5254E+00  MOLE FRACTIONS 8.3631E-07 1.0000E+00 8.3631E-07 1.1653E-23	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00  8.8513E-04 9.9623E-01 8.8513E-04 4.1026E-13	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	40VING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00 3.1890E-06 9.9999E-01 3.1890E-06 9.3049E-22	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00 1.0001E+00 9.9438E-01 4.0947E+00  - MOLE FRACTIONS 8.4684E-05 9.9983E-01 8.4684E-05 9.2759E-17	REFLECTED SHOCK 4.5155E+02 8.4.5155E+01 8.9.8768E+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00  7.4362E-03 9.8513E-01 7.4362E-03 6.1367E-10
P T RHD H A S Z Z GAME U SPECIES E-A A + A + A + A + A + A + A + A + A + A	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00 1.1656E-08 1.0000E+00 1.1656E-08 3.4690E-30 1.3304E-66	STANDING SHOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.9989E-01 3.5254E+00  MOLE FRACTIONS 8.3631E-07 1.0000E+00 8.3631E-07 1.1653E-23 2.9016E-52	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00  8.8513E-04 9.9623E-01 8.8513E-04 4.1026E-13 2.7401E-29	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	40VING SHOCK 8.1030E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00 3.1890E-06 9.9999E-01 3.1890E-06 9.3049E-22 3.1717E-48	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.219E+00 1.001E+00 9.9438E-01 4.0947E+00 - MOLE FRACTIONS 8.4684E-05 9.9983E-01 8.4684E-05 9.2759E-17 2.4456E-37	REFLECTED SHOCK 4.5155E+02 4.5378E+01 24.5378E+00 4.8052E+01 6.23493E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00  7.4362E-03 9.8513E-01 7.4362E-03 6.1367E-10 2.0479E-22
P T RHD H A S S Z GAME U SPECIES E-A A ++ A ++	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00 1.1656E-08 1.0000E+01 1.1656E-08 3.4690E-30 1.3304E-66 ).	STANDING SMOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4335E+00 1.1640E+00 1.0000E+00 9.998E-01 3.5254E+00  MOLE FRACTIONS 8.3631E-07 1.0000E+00 8.3631E-07 1.1653E-23 2.9016E-52 0.	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00  8.8513E-04 9.9623E-01 8.8513E-04 4.1026E-13 2.7401E-29 5.8438E-54	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	40VING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.901E+00 1.9000E+00 9.9965E-01 5.9619E+00 3.1890E-06 9.9999E-01 3.1890E-06 9.3049E-22 3.1717E-48 0.	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.912E+00 1.912E+00 1.9438E-01 4.0947E+00  - MOLE FRACTIONS 8.4684E-05 9.9983E-01 8.4684E-05 9.2759E-17 2.4454E-37 4.6592E-69	REFLECTED SHOCK 4.5155E+02 84.5378E+01 89.8768E+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00  7.4362E-03 9.8513E-01 7.4362E-03 6.1367E-10 2.0479E-22 2.1528E-41
P T RHD H A S S Z GAME U SPECIES E-A A ++ A ++	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00 1.1656E-08 1.0000E+00 1.1656E-08 3.4690E-30 1.3304E-66	STANDING SMOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.435E+00 1.1640E+00 1.0000E+00 9.9989E-01 3.5254E+00  MOLE FRACTIONS 8.3631E-07 1.0000E+00 8.3631E-07 1.1653E-23 2.9016E-52	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.1839E+00 1.0009E+00 9.6381E-01 3.4428E+00  8.8513E-04 9.9623E-01 8.8513E-04 4.1026E-13 2.7401E-29 5.8438E-54 2.4808E-86 0.	P T T RHO H A S L GAME U SPECIES E-A A+++ A+++ A+++ AV	40VING SHOCK 8.1080E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00 3.1890E-06 9.9999E-01 3.1890E-06 9.3049E-22 3.1717E-48 0.	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.2219E+00 1.1912E+00 1.0001E+00 9.9438E-01 4.0947E+00  - MOLE FRACTIONS 8.4684E-05 9.9983E-01 8.4684E-05 9.2759E-17 2.4456E-37 4.6592E-69 0.	REFLECTED SHOCK 4.5155E+02 4.5378E+01 4.8052E+01 6.2343E+00 1.2108E+00 1.2108E+00 3.7790E+00 8.5013E-01 3.7790E+00 7.4362E-03 6.1367E-10 2.0479E-22 2.1528E-41 1.8994E-66
P T RHD H A A A A A A A A A A A A A A A A A A	MOVING SHOCK 5.8003E+01 1.5416E+01 3.7624E+00 1.5416E+01 3.9264E+00 1.1631E+00 1.0000E+00 5.0154E+00 1.1656E-08 1.0000E+00 1.1656E-08 3.4690E-30 1.3304E-66 0.00	STANDING SMOCK 1.0486E+02 1.9658E+01 5.3343E+00 1.9658E+01 4.4355E+00 1.1640E+00 1.0000E+00 9.9989E-01 3.5254E+00  MOLE FRACTIONS 8.3631E-07 1.0000E+00 8.3631E-07 1.1653E-23 2.9016E-52 0.0	REFLECTED SHOCK 3.2401E+02 3.5048E+01 9.2366E+00 3.5312E+01 5.8146E+00 1.039E+00 9.6381E-01 3.4428E+00  8.8513E-04 9.9623E-01 8.8513E-04 4.1026E-13 2.7401E-29 5.8438E-54 2.4808E-86	P T RHO H A S Z GAME U SPECIES E- A A + A + + A + + + A V A V I	40VING SHOCK 8.1030E+01 2.1183E+01 3.8276E+00 2.1184E+01 4.6017E+00 1.1901E+00 1.0000E+00 9.9965E-01 5.9619E+00 3.1890E-06 9.9999E-01 3.1890E-06 9.3049E-22 3.1717E-48 0.	STANDING SHOCK 1.5209E+02 2.7420E+01 5.5464E+00 2.7443E+01 5.219E+00 1.1912E+00 1.0001E+00 9.9438E-01 4.0947E+00  - MOLE FRACTIONS 8.4684E-05 9.9983E-01 8.4684E-05 9.2759E-17 2.44545E-37 4.6592E-69 0.	REFLECTED SHOCK 4.5155E+02 4.5155E+02 4.5378E+01 7.9,8768E+00 4.8052E+01 6.2343E+00 1.2108E+00 1.0075E+00 8.5013E-01 3.7790E+00 7.4362E-03 9.8513E-01 7.4362E-03 6.1367E-10 2.0479E-22 2.1528E-41 1.8994E-66

P1 =	5.00E+05 N/SQ-M	. US1= 2.80E+0	3 M/SEC	P1 = 9	5.00E+05 N/ <u>SQ</u> .M	. US1= 3.20E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOČK	STANDING SHOCK	REFLECTED SHOCK
ρ	9.4100E+01	1.7972E+02	5.1840E+02	. Р	1.2317E+02	2.5288E+02	6.6176E+02
T	2.4426E+01	3.1769E+01	4.9415E+01		3.1529E+01	4.1116E+01	5.5818E+01
RHO	3.8524E+00	5.6545E+00	1.0352E+01	RHO	3.9046E+00	6.1234E+00	1.1534E+01
H	2-44326+01	3.1891E+01	5.4680E+01	. н	3.1663E+01	4.2527E+01	
Ä	4.9374E+00	5.5782E+00	6.3395E+00	Ä	5.5508E+00		6.8634E+01
ŝ	1.20235+00			ŝ		6.0662E+00	6.5332E+00
į	1.0000E+00	1.2035E+00	1.2231E+00 1.0134E+00	ž	1.2246E+00 1.0005E+00	1-22636+00	1.2473E+00
GAME .		1.0004E+00		GAME		1.0044E+00	1.0279E+00
UARE	9.9801E-01 6.4361E+00	9.7905E-01	8.0252E-01 3.8315E+00	U	9.7678E-01 7.3899E+00	8.9107E-01	7.4394E-01
	0143015400	4-3643E+00	3.03135400		1.30772700	4.6926E+00	3.8094E+00
SPECIE	s <del>`</del>	- MOLE FRACTIONS		SPEC IE:	·	- MOLE FRACTIONS	
E-	2.3856E-05	4 20445-04	1.3259E-02	E-	4.7670E-04	4 30445-03	2 71145 02
Ā .	9.9995E-01	4.2866E-04 9.9914E-01	9.7348E-01	Ā	9.9905E-01	4.3966E-03 9.9121E-01	2.7118E-02 9.4576E-01
Ā÷	2.3856E-05	4.2866E-04	1.3259E-02	Ã÷	4.7670E-04		
A++	9.1055E-19	2.4376E-14	4.6183E-09	Ä++	2.67528-14	4.3966E-03 7.2930E-11	2.7118E-02 6.0252E-08
A+++	5.6446E-42	4.4706E-32	1.6565E-20	A+++	3.8915E-32		4.6309E-18
A++++	2.47738-76	3.2609E-59	6.5909E-38	A++++	2.2442E-60	1.5004E-24	
AV	0.			AV		1.9219E-45	1.9554E-33
AVI	0.	0.	6.3781E-61 5.7888E-90	IVA	0. 0.	5.2710E-73	7.8196E-54
IIVA	0.	· 0.		IIVA	0.	0.	1.1491E-79
LIIVA	0.	0. 0.	0. 0.	IIIVA	0.	0. 0.	0.
	•	••	••	*****	V•	••	•
P1 =	5.00E+05 N/SQ-N	. US1= 3.00E+0	3 M/SEC	P1 = 9	5.00E+05 N/SQ-M	• US1= 3.40E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	1.0810E+02	2.1231E+02	5.87746+02	Р	1.3947E+02	3.0491E+02	7.4415E+02
Ť	2.7888E+01	3.6388E+01	5.2835E+01	Ť		36 4.5720E+01	5.8529E+01
RHO	3.8756E+00	5.8253E+00		RHO		36 4031200.02	
н	2.7922E+01				3.9504F+00	6-6050F+00	1.2276F+01
A -		3_6860F401	1.0902E+01		3.9504E+00 3.5672F+01	6.6050E+00	1.2276E+01
S	5.2604E+00	3.6860E+01 5.8663E+00	6-1508E+01	H	3.5672E+01	4.9037E+01	7.6185E+01
Ž	5.2604E+00 1.2138E+00	5.8663E+00	6.1508E+01 6.4363E+00		3.5672E+01 5.7836E+00	4.9037E+01 6.2081E+00	7.6185E+01 6.6322E+00
GAME	1.2138E+00	5.8663E+00 1.2151E+00	6.1508E+01 6.4363E+00 1.2352E+00	H A	3.5672E+01 5.7836E+00 1.2350E+00	4.9037E+01 6.2081E+00 1.2373E+00	7.6185E+01 6.6322E+00 1.2596E+00
GARE	1.2138E+00 1.0001E+00	5.8663E+00 1.2151E+00 1.0016E+00	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00	H A S	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00	7.6185E+01 6.6322E+00 1.2596E+00 1.0357E+00
U	1.2138E+00	5.8663E+00 1.2151E+00	6.1508E+01 6.4363E+00 1.2352E+00	H A S Z	3.5672E+01 5.7836E+00 1.2350E+00	4.9037E+01 6.2081E+00 1.2373E+00	7.6185E+01 6.6322E+00 1.2596E+00
	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00	5.8663E+00 1.2151E+00 1.0016E+00 9.4424E-01	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.8355E+00	H A S Z Game	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00 9.4747E-01 7.8832E+00	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00	7.6185E+01 6.632ZE+00 1.2596E+00 1.0357E+00 7.2563E-01 3.767ZE+00
U SPEC16	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00	5.8663E+00 1.2151E+00 1.0016E+00 9.4424E-01 4.5755E+00	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.0355E+00	H A S Z GAME U SPEC 1E:	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00 9.4747E-01 7.8832E+00	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00	7.6185E+01 6.6322E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00
SPECIE	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00 \$	5.8663E+00 1.2151E+00 1.0016E+00 9.442E-01 4.5755E+00 - MOLE FRACTIONS	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.8355E+00	H A S Z GAME U SPEC IE:	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00 9.4747E-01 7.8832E+00	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00 - MOLE FRACTIONS 9.5835E-03	7.6185E-01 6.6322E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00
SPECIE	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00 5	5.8663E+00 1.2151E+00 1.0116E+00 9.4424E-01 4.5755E+00  - MOLE FRACTIONS 9.9685E-01	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.8355E+00	H A S Z GAME U SPEC 1E: E- A	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00 9.4747E-01 7.8832E+00 S	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00  - MOLE FRACTIONS 9.5835E-03 9.8083E-01	7.6185E-01 6.6322E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00
SPECIE E- A A+	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00 S	5.8663E+00 1.2151E+00 1.0016E+00 9.4424E-01 4.5755E+00 - MOLE FRACTIONS 1.5774E-03 9.9685E-01 1.5774E-03	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.8355E+00	H A S Z GAME U SPEC IE: E- A A+	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00 9.4747E-01 7.8832E+00 S	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00	7.6185E+01 6.6322E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00 
SPECIE E- A A+ A++	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00 5	5.8663E+00 1.2151E+00 1.0016E+00 9.4424E-01 4.5755E+00  - MOLE FRACTIONS 1.5774E-03 9.9685E-01 1.5774E-03 2.1283E-12	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.8355E+00 1.9977E-02 9.6005E-01 1.9977E-02 1.9818E-08	H A S Z GAME U SPEC 1E: E- A A+ A++	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00 9.4747E-01 7.8832E+00 S 	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00 - MOLE FRACTIONS 9.5835E-03 9.8083E-01 9.5835E-03 1.1063E-09	7.6185E-01 6.6322E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00 
SPECIE E- A A+ A++	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00 5	5.8663E+00 1.2151E+00 1.0116E+00 9.4424E-01 4.5755E+00  - MOLE FRACTIONS 1.5774E-03 9.9685E-01 1.5774E-03 2.1283E-12 7.0163E-28	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.8355E+00  1.9977E-02 9.6005E-01 1.9977E-02 1.9818E-08 4.0125E-19	H A S Z GAME U SPECTE: E-A A+A+A++	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00 9.4747E-01 7.8832E+00 5 	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00  - MOLE FRACTIONS 9.5835E-03 9.8083E-01 9.5835E-03 1.1063E-09 5.6220E-22	7.6185E-01 6.6322E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00  3.4463E-02 9.3107E-01 3.4462E-02 1.4798E-07 3.4028E-17
SPECIE E- A A+ A++ A++	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00 S	5.8663E+00 1.2151E+00 1.0016E+00 9.4424E-01 4.5755E+00  - MOLE FRACTIONS 1.5774E-03 9.9685E-01 1.5774E-03 2.1283E-12 7.0163E-28 1.5068E-51	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.8355E+00  1.9977E-02 9.6005E-01 1.9977E-02 1.9818E-08 4.0125E-19 2.2455E-35	H A S Z GAME U SPEC IE: E- A A+ A++ A+++	3.5672E+01 5.7836E+00 1.2350E+00 1.2350E+00 9.4747E-01 7.8832E+00  1.4291E-03 9.9714E-01 1.4291E-03 1.1565E-12 1.4609E-28 6.4665E-53	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00	7.6185E-01 6.6322E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00 3.4463E-02 9.3107E-01 3.4462E-02 1.4798E-07 3.4028E-17 7.6613E-32
SPECIE E- A A+ A++ A+++ A+++	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00 S	5.8663E+00 1.2151E+00 1.016E+00 9.4424E-01 4.5755E+00  - MOLE FRACTIONS 1.5774E-03 9.9685E-01 1.5774E-03 2.1283E-12 7.0163E-28 1.5904E-82	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E+01 3.8355E+00  1.9977E+02 9.6005E+01 1.9977E+02 1.9818E+08 4.0125E+19 2.2455E+35 6.7415E-57	H A S Z Z GAME U SPEC 1E:  E- A A+ A++ A+++ A+++	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00 9.4747E-01 7.8832E+00 S 	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00  - MOLE FRACTIONS 9.5835E-03 9.8083E-01 9.5835E-03 1.1063E-09 5.6220E-22 1.0083E-40 1.6637E-65	7.6185E-01 6.6322E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00 
SPECIE E-A A+ A++ A++ A+++ A+++ A+++	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00 S	5.8663E+00 1.2151E+00 1.0016E+00 9.4424E-01 4.5755E+00  - MOLE FRACTIONS 1.5774E-03 9.9685E-01 1.5774E-03 2.1283E-12 7.0163E-28 1.5068E-51 1.0904E-82 0.	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.8355E+00  1.9977E-02 9.6005E-01 1.9977E-02 1.9818E-08 4.0125E-19 2.2455E-35 6.7415E-57 4.4282E-84	H A S Z GAME U SPEC IE: E- A A+ A++ A+++ A+++ AV AVI	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00 9.4747E-01 7.8832E+00 5 	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00  - MOLE FRACTIONS 9.5835E-03 9.8083E-01 9.5835E-03 1.1063E-09 5.6220E-22 1.0083E-40 1.6637E-65 0.	7.6185E-01 6.632E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00 
SPECIE E- A A+ A++ A+++ A+++ AVI AVII	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00 S	5.8663E+00 1.2151E+00 1.0016E+00 9.4424E-01 4.5755E+00  - MOLE FRACTIONS 1.5774E-03 9.9685E-01 1.5774E-03 2.1283E-12 7.0163E-28 1.5068E-51 1.0904E-82 0.	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.8355E+00  1.9977E-02 9.6005E-01 1.9977E-02 1.9818E-08 4.0125E-19 2.2455E-35 6.7415E-57 4.4282E-84 0.	H A S Z GAME U SPECIE:  E- A A+ A++ A+++ A+++ AV AVI AVII	3.5672E+01 5.7836E+00 1.2350E+00 1.2350E+00 9.4747E-01 7.8832E+00  S 1.4291E-03 9.9714E-01 1.4291E-03 1.1565E-12 1.4609E-28 6.4665E-53 5.8798E-85 0.	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.0957E+00  - MOLE FRACTIONS 9.5835E-03 9.8083E-01 9.5835E-03 1.1063E-09 5.6220E-22 1.0083E-40 1.6637E-65 0.	7.6185E-01 6.6322E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00 3.4463E-02 9.3107E-01 3.4462E-02 1.4798E-07 3.4028E-17 7.6613E-32 2.7858E-51 7.1182E-76 0.
SPECIE E-A A+ A++ A++ A+++ A+++ A+++	1.2138E+00 1.0001E+00 9.9213E-01 6.9102E+00 S	5.8663E+00 1.2151E+00 1.0016E+00 9.4424E-01 4.5755E+00  - MOLE FRACTIONS 1.5774E-03 9.9685E-01 1.5774E-03 2.1283E-12 7.0163E-28 1.5068E-51 1.0904E-82 0.	6.1508E+01 6.4363E+00 1.2352E+00 1.0204E+00 7.6840E-01 3.8355E+00  1.9977E-02 9.6005E-01 1.9977E-02 1.9818E-08 4.0125E-19 2.2455E-35 6.7415E-57 4.4282E-84	H A S Z GAME U SPEC IE: E- A A+ A++ A+++ A+++ AV AVI	3.5672E+01 5.7836E+00 1.2350E+00 1.0014E+00 9.4747E-01 7.8832E+00 5 	4.9037E+01 6.2081E+00 1.2373E+00 1.0097E+00 8.3490E-01 4.6957E+00  - MOLE FRACTIONS 9.5835E-03 9.8083E-01 9.5835E-03 1.1063E-09 5.6220E-22 1.0083E-40 1.6637E-65 0.	7.6185E-01 6.632E+00 1.2596E+00 1.0357E+00 7.2563E-01 3.7672E+00 

P1 =	5.00E+05 N/SQ-M	US1= 3.60E+0	3 M/SEC		Pl =	5.00E+05 N/SQ-M	. US1= 4.00E+0	3 M/SEC	
								0.551.55.550.510.64	
	MOVING SHOCK				_	MOVENG SHOCK	STANDING SHOCK		
P	1.5722E+02	3.7062E+02	8.4011E+02		P ·	1.9775E+02	5.4597E+02	1.0925E+03	٠
T -	3.8921E+01	4.9912E+01	. 6.1085E+01	·	Ŧ	4.5567E+01	5.7081E+01	6.6004E+01	
RHD "	4.0255E+00	7.3006E+00	1.3177E+01		RHO	4.2896E+00	9.2368E+00	1.5616E+01	
H	3.9969E+01	5.6394E+01	8.4308E+01		H ,	4.9483E+01	7.3231E+01	1.0270E+02	
Á	5.9499E+00	6.3324E+00	6.7341E+00		A	6.1647E+00	6.5833E+00	6.9478E+00	
S	1.2449E+00	1.2482E+00	1.2721E+00		S	1.2644E+00	1.2709E+00	1.2983E+00	
Ž.	1.0034E+00	1.0171E+00	1.0437E+00		2	1.0117E+00	1.0355E+00	1.05998+00	
GAME	9.0644E-01	7.8990E-01	7.1129E-01		GAME	8.2438E-01	7.3322E-01	6.9002E-01	
Ü	8.3997E+00	4.6130E+00	3.7181E+00		Ü	9.5212E+00	4.4056E+00	3.6226E+00	
								j.	
SPECIE	s	- MOLE FRACTIONS			SPEC IE	s	- MOLE FRACTIONS		
E-	3.4318E-03	1.6815E-02	4.1882E-02		E-	1.1565E-02	3.4295E-02	5.6502E-02	
Ā	9.9314E-01	9.6637E-01	9.1624E-01		A	9.7687E-01	9.3141E-01	8.87006-01	
Ã+ .	3.4318E-03	1.6815E-02	4-1882E-02		A+	1.1565E-02	3.4295E-02	5.6500E-02	
A++	2.3351E-11	8.2307E-09	3.1612E-07		A++	1.5619E-09	1.1857E-07		
A+++	9.8045E-26		1.8607E-16		A+++	8.8887E-22	1.7459E-17	3.21086-15	
A++++		4.6033E-20			A++++	1.6260E-40	1.8544E-32	3.38456-28	
AV	1.00358-47	3.26528-37	1.7409E-30		AV	2.0534E-65	2.3665E-52	1.8343E-45	
	1.08756-76	6-1724E-60	4.0114E-49		IVA	0.	1.4234E-77	2.33466-67	
IVA	0.	1.096LE-88	1.0022E-72						
IIVA	0.	0.	o.		IIVA	2.	0.	0. 0.	
IIIVA	0.	0-	0.		AVIII'	0.	0.	٠.	
P1 =	5.00E+05 N/SQ-H	. US1= 3.80E+0	3 M/SEC		P1 =	5.00E+05 N/SQ-M	. US1= 4.20E+0	3 M/SEC	
,			•						
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	
P	1.7662E+02	4.4961E+02	9.5501E+02		P	2-2060E+02	6.5883E+02	1.2545E+03	
ř	4.2387E+01	5.3646E+01	6.3565E+01		T	4.8447E+01	6.0196E+01	6.8417E+01	
RHO	4.1384E+00	8.1695E+00	1.4284E+01	,	ŘHO	4.4739E+00	1.0472E+01	1.7172E+01	
H					H	. 5.4696E+01	8.2636E+01	1.12998+02	
Ä	4.4571E+01	6.4433E+01	9.3132E+01		Ä	6.2563E+00	6.7090E+00	7.0588E+00	
Š	6.0680E+00	6.4559E+00	6.8394E+00		ŝ	1.2741E+00	1.2830E+00	1.3122E+06	
	1.2547E+00	1.2592E+00	1.2850E+00	•	ž	1.01786+00	1.0452E+00	1.0678E+00	
2	1.0069E+00	1.0259E+00	1.051 BE +00		GAME			6.8205E-01	
GAME	8.6276E-01	7.5731E-01	6.9964E-01		· U	7.9383E+01 1.0121E+01	7.1542E-01	3.5794E+00	
·u	8.9458E+00	4.5214E+00	3.6695E+00	•	. 0	1.01216+01	4.3134E+00	3.31746400	
SPECI	ES	- MOLE FRACTIONS			SPEC IE	s	- HOLE FRACTIONS		
					_		4 22545 22	4 3444 5 55	-
E-	6.8070E-03	2.5236E-02	4.9274E-02		E-	1.7462E-02	4.3204E-02	6.3466 - 02	
A	9.8639E-01	9.4953E-01	9.0145E-01		Ą	9.6508E-01	9.1359E-01	8.7307E-01	
A+	6.8070E-03	2.5236E-02	4.9272E-02		A+	1.7462E-02	4.3204E-02	6.3462E-02	•
A++	2.4718E-10	3.6667E-08	6.1328E-07		A++	6.6731E-09	2.9923E-07	1.8783E-06	
A+++	1.6100E-23	1.2619E-18	8.3390E-16	-	A+++	2.1317E-20	1.4232E-16	1.0959E-14	,
A++++,	1.0297E-43	1.4575E-34	2.7806E-29		A++++	5.7466E-38	9.1326E-31	3.3212E-27	
AV	1.2925E-70	1.0614E-55	3.3609E-47		AV	3.0227E-61	1.2499E-49	7-13826-44	
AVI	0.	1.9892E-82	6.6231E-70		IVA	1.1981E-90	. 1.5976E-73	5-02808-65	
AVII	0.	0.	0.		AVII	0.	0.	3.48626-93	
IIIVA	ŏ.	0.	0.		AVIII	0.	0.	0.	
	-, -								

# $p_{I}$ = 500 kN/m²

P1 =	5.00E+05 N/SQ-M.	US1= 4.40E+0	3 M/SEC	P1 = 5.	.00E+05 N/SQ-M	, US1= 4.80E+0	3 M/SEC
,•							·
	MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
р.	2.4508E+02	7.9248E+02	1.4420E+03	ρ	2.9863E+02	1.1185E+03	1.8962E+03
T	5.1054E+01	6.3120E+01	7.0818E+01	ř ·	5.5627E+01	6.8501E+01	7.5636E+01
RHD	4.6842E+00	1.1905E+01	1.8934E+01	RHO	5.1592E+00	1.5228E+01	2.3003E+01
н	6.0199E+01	9.2729E+01	1.23975+02	H ,	7.2033E+01	1.1456E+02	1.4787E+02
7		6.8341E+00	7.1725E+00	Ä	6.5345E+00	7.0787E+00	7.4097E+00
Ŝ.	6.3483E+00			Š			
2	1.2840E+00	1.2956E+00	1.3266E+00	2	1.3046E+00	1.3228E+00 1.0722E+00	1.3571E+00
	1.0248E+00	1.0546E+00	1-0754E+00	GAME	1.0405E+00 7.3770E-01	6-8222E-01	1.0898E+00
GAME	7.7029E-01	7.0162E-01	6.7550E-01	U			6.6607E-01
	1.0738E+01	4.2076E+00	3.5403E+00	, 0	. 1.2002E+01	4.0588E+00	3.4766E+00
1.	•		•				
SPECI	FS	MOLE FRACTIONS		SPEC 1ES		- MOLE FRACTIONS	
		:	•	0. 20120			
E-	2.4177E-02	5.1789E-02	7-0106E-02	E-	3.8966E-02	6.7347E-02	8.2410E-02
Α '	9.5165E-01	8.9642E-01	8.5979E-01	A	9.2207E-01	8.6531E-01	8.3519E-01
A+	2.4177E-02	5.1787E-02	7.0100E-02	A+	-3.8965E-02	6.7343E-02	8.2396E-02
A++ 1		6.4394E-07	3.0457E-06	A++	1.2386E-07	2.1546E-06	7.2336E-06
A+++	2.7237E-19	8.2426E-16	3.3940E-14	A+++	1.3185E-17	1.3722E-14	2.6303E-13
A++++	5.9430E-36	2.3879E-29	2.7373E-26	A++++	7.3791E-33	4.5981E-27	1.2596E-24
AV ?	4.2817E-58	2.2974E-47	2.1172E-42	AV	3.7259E-53	1.1082E-43	9.9925E-40
AVI	2.7926E-86	3.1168E-70	7.3791 E-63	IVA	6.1553E-79	8.9320E-65	6.3164E-59
AVII	0.	0.	3.8463E-91	AVII	0.	7.4806E-93	2.3209E-84
IIIVA	ŏ.	0.	0.	AVIII	ō.	0.	0.
	••	•••		~~~~	••		
			•			*	
	•	•					
•							•
01 -	5.00E+05 N/SQ-M	1161- ( 405.4		01 - 5	.00E+05 N/SQ-M	. US1= 5.00E+0	3 M/CEC
71 -	3.00E403 N/34-H	US1= 4.60E+0	13 M/SEC .	P1 - 7	-00E403 W.24-W	4 031- 3100540	. H/3EC
	•						•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Ρ	2.7111E+02	9.4476E+02	1.6557E+03	Ρ.	3.2757E+02	1.3163E+03	2.1642E+03
T ·	5.3434E+01	6.5866E+01	7.3218E+01	Ť	5.7670E+01	-35 7.1074E+01	7.8096E+01
RHO	4.9144E+00	1.3485E+01	2.0885E+01	RHD	5.4151E+00	1.7143E+01	2.5269E+01
H	6.5980E+01	1.0336E+02	1.3561E+02	H	7.8349E+01	1.2636E+02	, 1.6073E+02
A	6.4412E+00	6.9569E+00	7.2891E+00	Ä	6.6275E+00	7.2010E+00	7.5355E+00
S	1.2942E+00	1.3089E+00	1.3415E+00	Š.	1.3153E+00	1.3373E+00	1.3732E+00
Ž	1.0324E+00	1.0636E+00	1.0827E+00	ž	1.0489E+00	1.0803E+00	1.0967E+00
GAME	7.5207E-01	6.9083E-01	6.7021E-01	GAME	7.2611E-01	6.7534E-01	6.6302E-01
Ü	1.1366E+01	4.1303E+00	3.5061E+00	Ü	1.2643E+01	3.9778E+00	3.4531E+00
- •	,		2020022-00		•		
SPECI	ES	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	
E-	3.1418E-02	5.9837E-02	7.6413E-02	E-	4.6664E-02	7.4344E-02	8.8153E-02
Ā	9.3716E-01	8.8033E-01	8.4718E-01	Ã		8.5132E-01	8.2370E-01
A+	3.1418E-02	5.9834E-02	7.6403E-02	Ä÷	4.6663E-02	7.4337E-02	8-8132F-02
				Ä++	2.4605E-07	3.5580E-06	1 07745-06
		1-, 2284F=04	· 4-7600F=06				
A+++	5.5573E-08	1.2284E-06					1.0776E-05 6.8193E-13
A+++	5.5573E-08 2.2359E-18	3.6841E-15	9.7309E-14	A+++	6.0813E-17	4.4883E-14	,6.8193E-13
A+++	5.5573E-08 2.2359E-18 2.8362E-34	3.6841E-15 3.9261E-28	9.7309E-14 1.9600E-25	A+++ A+++	6.0813E-17 1.2393E-31	4.4883E-14 4.2430E-26	6.8193E-13 7.4946E-24
A+++ A++++ AV	5.5573E-08 2.2359E-18 2.8362E-34 2.0690E-55	3.6841E-15 3.9261E-28 2.1136E-45	9.7309E-14 1.9600E-25 5.0113E-41	A+++ A++++ AV	6.0813E-17 1.2393E-31 3.5190E-51	4.4883E-14 4.2430E-26 3.9767E-42	6.8193E-13 7.4946E-24 1.7646E-38
A+++ A++++ AV AVI	5.5573E-08 2.2359E-18 2.8362E-34 2.0690E-55 3.0386E-82	3.6841E-15 3.9261E-28 2.1136E-45 2.6286E-67	9.7309E-14 1.9600E-25 5.0113E-41 7.7247E-61	A+++ A++++ AV AVI	6.0813E-17 1.2393E-31 3.5190E-51 6.0296E-76	4.4883E-14 4.2430E-26 3.9767E-42 1.7450E-62	6.8193E-13 7.4946E-24 1.7646E-38 4.3512E-57
A+++ A++++ AV	5.5573E-08 2.2359E-18 2.8362E-34 2.0690E-55	3.6841E-15 3.9261E-28 2.1136E-45	9.7309E-14 1.9600E-25 5.0113E-41	A+++ A++++ AV	6.0813E-17 1.2393E-31 3.5190E-51	4.4883E-14 4.2430E-26 3.9767E-42	6.8193E-13 7.4946E-24 1.7646E-38

Pl =	5.00E+05 N/SQ-M	US1= 5.20E+0	3 M/SEC	P1 = 5.	.00E+05 N/SQ-M	<ul> <li>US1= 5.60E+0</li> </ul>	3 M/SEC
				*			
• •	MONTHÉ CHOCK	STÁNDÍNG SHOCK	REFLECTED SHOCK	• •	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
				•	4.2259E+02	2.0458E+03	3.1398E+03
-	3.5790E+02	1.5349E+03	2.4607E+03	<u>'</u>		7.8641E+01	8.5998E+01
1	5.9592E+01	7.3592E+01	8.0623E+01	<u>r</u>	6.3168E+01		
RHO	5.6791E+00	1.9170E+01	2.7660E+01	RHO	6.2231E+00	2.3599E+01	3.2693E+01
н	8.4926E+01	1.3862E+02	1.7419F+02	н	9.8850E+01	1.6474E+02	2.0272E+02
A	6.72J0E+00	7.3241E+00	7.6685E+00	A '	6.9030E+00	7.5810E+00	7.9643E+00
S	1.3263E+00	1.3524E+00	1.3898E+00	· \$	1.3491E+00	1.3843E+00	1.4243E+00
Z ··	1.0575E+00	1.0880E+00	1.1034E+00	Z	1.0750E+00	1.1024E+00	1.1167E+00
GAME	7-1656E-01	6.6997E-01	. 6.6104E-01	GAME .	7.01718-01	6.6296E-01	6.6047E-01
Ü.	1.3286E+01	3.9257E+00	3.4361E+00	U	1.4573E+01 7	3.8329E+00	3.4054E+00
-	,		, , , , , , , , , , , , , , , , , , , ,		٠.		
				SPEC IES		- NOLE FRACTIONS	
SPECIE	F 2	MOLE FRACTIONS		SPECIES.	-	T NULE PRACTIONS	
E- '	5.4409E-02	8.0871E-02	9-3707E-02	£-	6.9790E-02	9.2850E-02	1.0454E-01
Ā	8.9118E-01	8.3826E-01	8-1260E-01	Ā	8.6042E-01	8.1431E-01	7.9095E-01
Ä+ .	5.4438E-02	8.0860E-02	9.3675E-02	· A+	6.9788E-02	9.2825E-02	1.0448E-01
A++	4.4762E-07			Ä++	1.2259E-06	1.2769E-05	3.3728E-05
A+++ .		5.6062E-06	1-5846E-05	A+++	2.2339E-15	9.5342E-13	1.06136-11
	2.3118E-16	1.3236E-13	1 -7202E-12				1.25746-21
A++++	L.4259E-30	3.2256E-25	4-2232E-23	A++++	9.3606E-29	1.3103E-23	
AV	1.6453E-49	1.0424E-40	2.8308E-37	AV	1.3490E~46	4.0661E-38	6.5561E-35
AVI .	1.4241E-73	2.1320E-60	2.5471E-55	IVA	3.0209E~69	1.3926E-56	7.5691E-52
IJVA	0•	1.6088E-86	3.7555E-79	IIVA	O• ·	5.3281E-81	· 3-8776E-74
111VA	<b>3.</b>	• 0.	0.	Illva	o.	0.	0.
	•					•	
			•	,			
			÷ .				
	-	• •		•			
		•	•				
P1 =	5.00E+05 N/SQ-M	US1= 5.40E+0	3 M/SEC	P1 = 5.	.00E+05 N/SQ-M	. US1= 5.80E+0	3 M/SEC
	HOWENE CHOCK		055: 545 4:4:-		**************************************	CTAMOTHE CHOCK	
_		STANDING SHOCK		_		STANDING SHOCK	
P .	3.8958E+02	1.7774E+03	2-7866E+03	. Р	4.5690E+02	2.3378E+03	3.5282E+03
T	6.1418E+01	7.6102E+01	8.322ZE+01	T	6.4857E+01	8.1229E+01	8-8940E+01
RHD	5.9490E+00	2.1323E+01	3.0168E+01		6.4998E+00	2.5946E+01	3.5306E+01
H ′	9.1760E+01	1.5141E+02	1 • 8826E + 02	H	1.0619E+02	1.7854E+02	2.1804E+02
A	6.8118E+00	7.4501E+00	7.8088E+D0	<b>A</b>	6-9938E+00	7.7184E+00	8.1342E+00
S	1.3376E+00	1.3681E+00	1.4066E+00	. 5	1.3610E+00	1.4010E+00	1.4422E+00
. 2	1.0662E+00	1.0953E+00	1.10996+00	2	1:0838E+00	1.1092E+00	1.1236E+00
GAME	7.0854E-01	6.6588E-01	6.6015E-01	GAME	6.9584E-01	6-6119E-01	6.6211E-01
U	1.3929E+01	3.8804E+00	3-4272E+00	Ü	1.5215E+01	3.8038E+00	3.4185E+00
		•					
SPEC I	E &	MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	·
375010	-2	MULE PRACTIONS	,	SPECIES		- HOLE PRACTIONS	
E- >	6.2132E-02	8.7013E-02	9-9032E-02	E+	7.7361E-02	9.8476E-02	1.1000E-01
A	8.7574E-01	8.2598E-01	8.0196E-01	Ā	8.4528E-01	8.0307E-01	7.8005E-01
A+	6.2130E-02	8.6996E-02	9.8985E-02	Ã÷	7.7357E-02	9.8438E-02	1.09906-01
A++				Ä++	1.8925E-06	1.8781E-05	4.9424E-05
		R. 5541F-04					
	7.6088E-07	8.5541E-06	2-3026E-05	A & & &			
A+++	7.6088E-07 7.6163E-16	3.6383E-13	4-2342E-12	A+++	5.9696E-15	2.4168E-12	2-6684E-11
A++++	7.6088E-07 7.6163E-16 1.2881E-29	3.6383E-13 2.1521E-24	4-2342E-12 2-2731E-22	A++++	5.9696E-15 5.7107E-28	2.4168E-12 7.4774E-23	2.6684E-11 6.9720E-21
A++++	7.6088E-07 7.6163E-16 1.2881E-29 5.6717E-48	3.6383E-13 2.1521E-24 2.2212E-39	4-2342E-12 2-2731E-22 4-2324E-36	A++++ - AV	5.9696E-15 5.7107E-28 2.3970E-45	2.4168E-12 7.4774E-23 6.6919E-37	2.6684E-11 6.9720E-21 1.0140E-33
A++++ AV AVI	7.6088E-07 7.6163E-16 1.2881E-29 5.6717E-48 2.8797E-71	3.6383E-13 2.1521E-24 2.2212E-39 1.9368E-58	4-2342E-12 2-2731E-22 4-2324E-36 1-3618E-53	A++++ AV AVI	5.9696E-15 5.7107E-28 2.3970E-45 2.0066E-67	2.4168E-12 7.4774E-23 6.6919E-37 8.5557E-55	2.6684E-11 6.9720E-21 1.0140E-33 4.1582E-50
AVII .	7.6088E-07 7.6163E-16 1.2881E-29 5.6717E-48 2.8797E-71 0.	3.6383E-13 2.1521E-24 2.2212E-39 1.9368E-58 1.1128E-83	4.2342E-12 2.2731E-22 4.2324E-36 1.3618E-53 1.1922E-76	A++++ Av Avi Avii	5.9696E-15 5.7107E-28 2.3970E-45 2.0066E-67	2.4168E-12 7.4774E-23 6.6919E-37 8.5557E-55 2.0374E-78	2.6684E-11 6.9720E-21 1.0140E-33 4.1582E-50 1.2099E-71
A++++ AV AVI	7.6088E-07 7.6163E-16 1.2881E-29 5.6717E-48 2.8797E-71	3.6383E-13 2.1521E-24 2.2212E-39 1.9368E-58	4-2342E-12 2-2731E-22 4-2324E-36 1-3618E-53	A++++ AV AVI	5.9696E-15 5.7107E-28 2.3970E-45 2.0066E-67	2.4168E-12 7.4774E-23 6.6919E-37 8.5557E-55	2.6684E-11 6.9720E-21 1.0140E-33 4.1582E-50

P1 = 5.00E+05 N/SQ-M, US1= 6.00E+03 M/SEC	P1 = 5.00E+05 N/SQ-M, US1= 6.40E+03 M/SEC
MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   4.925LE+02   2.6518E+03   3.949E+03   T   6.6499E+01   8.3894E+01   9.2138E+01   RHO   6.7779E+00   2.8322E+01   3.790E+01   H   1.1379E+02   1.9278E+02   2.3399E+02   A   7.0847E+00   7.8645E+00   8.3262E+00   S   1.3732E+00   1.4181E+00   1.4606E+00   2.1392E+00   3.1421E+00   GAME   6.9075E-01   6.6058E-01   6.6534E-01   U   1.5857E+01   3.8020E+00   3.4421E+00	MOVING SHOCK   STANDING SHOCK   REFLECTED SHOCK   P   5.6791E+02   ( 3.3649E+03   4.9040E+03   T   6.9696E+01   1 8.9685E+01   9.9582E+01   RHO   7.3379E+00   3.3202E+01   4.2929E+01   H   1.2977E+02   2.2293E+02   2.6814E+02   2.6814
SPECIES MOLE FRACTIONS	SPECIES
E- 8.4830E-02 1.0399E-01 1.1571E-01 A 8.3034E-01 7.9204E-01 7.6866E-01 A+ 8.4824E-02 1.0394E-01 1.1556E-01 A++ 2.8226E-06 2.7392E-05 7.3402E-05 A+++ 1.4807E-14 6.0108E-12 6.9249E-11 A++++ 3.0359E-27 4.1016E-22 4.0807E-20 AV 3.4036E-44 1.0296E-35 1.7059E-32 AVI 9.3945E-66 4.7489E-53 2.5963E-48 AVII 1.3529E-94 6.7248E-76 4.6535E-69 AVIII 0. 9.4043E-94	E- 9.9462E-02 1.1505E-01 1.2826E-01 A 8.0108E-01 7.695E-01 7.4364E-01 A+ 9.9450E-02 1.1494E-01 1.2792E-01. A++ 5.8091E-06 5.8521E-05 1.7095E-04 A+++ 7.7102E-14 3.7642E-11 5.3070E-10 A+++ 6.3482E-26 1.2463E-20 1.7428E-18 AV 4.3281E-42 2.4383E-33 6.7051E-30 AVI 1.1171E-62 1.4361E-49 1.5814E-44 AVII 0. 6.8687E-71 1.2062E-63 AVII 0. 8.6146E-97 1.2350E-86
P1 = 5.00E+05 N/SQ-M. US1= 6.20E+03 N/SEC	P1 = 5.00E+05 N/SQ-M, US1= 6.60E+03 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P
SPECIES MOLE FRACTIONS	SPECIES
E- 9.2195E-02 1.0947E-01 1.2175E-01 A: 8.1561E-01 7.8109E-01 7.5661E-01 A+ 9.2187E-02 1.0939E-01 1.2153E-01 A++ 4.0942E-06 3.9901E-05 1.1078E-04 A+++ 3.4592E-14 1.4916E-11 1.8664E-10 A++++ 1.4487E-26 2.2312E-21 2.5438E-19 AV 4.0997E-43 1.5554E-34 3.1409E-31 AVI 3.5414E-06 2.5496E-51 1.8159E-46 AVII 2.3872E-92 2.0881E-73 2.0074E-66 AVIII 0. 0 1.1838E-90	E- 1.0663E-01 1.2077E-01 1.3555E-01; A 7.8676E-01 7.5855E-01 7.2917E-01; A+ 1.0661E-01 1.2059E-01 1.3501E-01; A++ 8.0840E-06 8.6256E-05 2.7040E-04; A+++ 1.6473E-13 9.6047E-11 1.5979E-09; A++++ 2.5720E-25 7.0647E-20 1.3165E-17; AV 4.0325E-61 3.8876E-32 1.6549E-28; AVI 2.9383E-61 8.2314E-48 1.6766E-42; AVII 4.0034E-88 2.2863E-68 9.2492E-61; AVIII 0. 4.9137E-93 9.3427E-83

Pl =	5.00E+05 N/SQ-M	. US1= 6.80E+0	3 M/SEC	P1 =	5.00E+05 N/\$Q-M	, US1= 7.20E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	6.4782E+02	4.1730E+03	5.9976E+03	P	1.3267E+02	5.0639E+03	7.2448E+03
Ť	7.2825E+01	9.6317E+01	1.0899E+02	Ť	7.5965E+01	1.0424E+02	1.20816+02
RHD	7.8841E+00	3.7832E+01	4.7122E+01	RHD	8.4136E+00	4.1765E+01	5.0185E+01
н	1.4672E+02	2.5481E+02	3.0514E+02	H	1.6469E+02	2.8842E+02	3.4532E+02
Ä	7.4550E+00	8.6107E+00	9.4433E+00	 A	7.6505E+00	9.1413E+00	1.0262E+01
ŝ	1.4247E+00	1.4894E+00	1.5370E+00	ŝ	1.4520E+00	1.5256E+00	1.5753E+00
ž	1.1283E+00	1.1452E+00	1.1678E+00	ž	1.1463E+00	1.1632E+00	1-1949E+00
GAME	6.7638E-01	6.72185-01	7.0064F-01	GAME	6.7212E-01	6.8919E-01	7.2946E-01
U	1.8412E+01	3.8421E+00	3.6992E+00	Ü	1.9670E+01	3.9680E+00	3.9385E+00
			?				•
SPEC LE	s	- MOLE FRACTIONS		SPEC IE	s	- MOLE FRACTIONS	
E-	1.1371E-01	1.2680E-01	1.4367E-01	E-	1.2766E-01	1.4030E-01	1.6314E-01
A	7.7260E-01	7.4653E-01	7.1309E-01	A	7.4470E-01	7.19.70E-01	6.7489E-01
A+ '	1.1368E-01	1.2654E-01	1.4280E-01	A+	1.2762E-01	1.3970E-01	1.6080E-01
A++	1.1082E-05	1.2856E-04	4.3669E-04	Ä++	2.0130E-05	2.9834E-04	1.1693E-03
A+++	3.4073E-13	2.5122E-10	5.0620E-09	A+++	1.3557E-12	1.9029E-09	5.4685E-08
A++++	9.8139E-25	4.1637E-19	1.0879E-16	A++++	1.2475E-23	1.7168E-17	8.4806E-15
AV	3.4117E-40	6.5437E-31	4.6985E-27	AV	1.9609E-38	2.3980E-28	4.6376E-24
AVI	6.7006E-60	5.0563E-46	2.1824E-40	IVA	2.5143E-57	2.7457E-42	4.9133E-36
AVII	3.6795E-86	8.2389E-66	9.5658E-58	AVII	1.9092E-82	1.7743E-60	1.4574E-51
IIIVA	2.	1.3771E-89	1.1004E-78	IIIVA	0.	2.1793E-82	2.2866E-70
P1 =	5.00E+05 N/SQ-M	, US1= 7.00E+0	na m/sec	Pl =	5.00E+05 N/SQ-M	. US1= 7.40E+0	3 M/SEC
• •	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 551- 116621	,, A, 300	. •			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	•	MUVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	6.8964E+02	4.6085E+03	6.6054E+03	P	7.7690E+02	5.5368E+03	7.9385E+03
T	7.4390E+01	1.0009E+02	1.1465E+02	Ť	7.7559E+0L	1.0881E+02	1.2767E+02
RHO	8.1515E+00	3.9909E+01	4.8802E+01	RHO	8.6691E+00	4.3353E+01	5.1302E+01
н	1.5558E+02	2.7140E+02	3.2500E+02	H	1.7405E+02	3.0586E+02	3.6719E+02
A-	7.5514E+00	8.8587E+00	9.8386E+0C	A	7.7527E+00	9.4604E+00	1.0716E+01
Š	1.4382E+00	1.5075E+00	1.5564E+00	S	1.4659E+00	1.5435E+00	1.5947F+0C
ž	1.1373E+00	1.1538E+00	1.1805F+00	Ž	1.1555E+00	1.1737E+00	1.2120E+00
GAME	6.7403E-01	6.7960E-01	7.1517E-01	GAME	6.7067E-01	7.0077E-01	7.4206E-01
Ü	1.9043E+01	3.8948E+00	3.8237E+00	Ū	2.0296E+01	4.0640E+00	4.1259E+00
SPEC IE	s	- MOLE FRACTIONS		SPEC IE	s	- MOLE FRACTIONS	
	_			_	. 2/5/5 01		1 7/025 01
E-	1.2071E-01	1.3327E-01	1.5293E-01	E-	1.3456E-01	1.4803E-01	1.7492E-01
	7.5859E-01	7.3366E-01	6.9486E-01	A	7.3090E-01	7.0441E-01	6.5206E-01
A+	1.2068E-01	1.3288E-01	1.5149E-01	A+	1.3451E-01	1.4710E-01	1.7113E-01
A++	1.5008E-05	1.9438E-04	7.1811E-04	A++	2.6799E-05	4.6353E-04	1.8952E-03
A+++	6.8669E-13	6.7942E-10	1.6787E-08	A+++	2.6346E-12	5.4884E-09	1.7756E-07
A++++	3.5672E-24	2.5955E-18	9.7531E-16	A++++	4.23436-23	1.19316-16	7.3725E-14
AV	2.6689E-39	1.1980E-29	1.5112E-25	AV -	1.3725E-37	. 5.1624E-27	1.4289E-22
AVI	1.3600E-58	3.4981E-44	3.3843E-38	AVI	4.3264E-56	2.37888-40	7.2102E-34
IIVA	2.8408E-84	3.5040E-63	1.2409E-54	IIVA	1.1569E-80	1.01536-57	1.7280E-48
I I I VA	0.	4.8584E-86	1.6959E-74	11174	. 0.	1.12396-78	3.1156E-66

P1 =	5.00E+05 N/SQ-M	. US1= 7.60E+0	3 H/SEC		P1 = 5	.00E+05 N/SQ-M	. US1= 8.00E+0	3 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	8.2233E+02	6.0247E+03	8.6638E+03		P	9.1670E+02	7.0400E+03	1.0213E+04
T	7.9180E+01	1.1382E+02	1.3475E+02		Ţ	8.2540E+01	1.2494E+02	1.4905E+02
RHO	8.9167E+00	4.4645E+01	5.2235E+01		RHO	9.3826E+00	4-6427E+01	5.3809E+01
н	1.8367E+02	3.2370E+02	3.89575+02		н	2.0365E+02	3-6058E+02	4.3633E+02
A	7.8588E+00	9.8131E+00	1.1162E+01		) A	8.0855E+00	1.0575E+01	1.2027E+01
S	1.4800E+00	1.5612E+00	1.6135E+00		\$	1.5088E+00	1.5956E+00	1.6498E+00
Z	1.1647E+00	. 1.1856E+00	1.2308E+00		Z,	1.1837E+00	1.2137E+00	1.27346+00
GAME	6.6967E-01	7.1359E-01	7.5122E-01		GAME	6.6914E-01	7.3743E-01	7.6212E-01
U	2.0919E+01	4.1843E+00	4.30498+00		, U	2.2156E+01	4-4828E+00	4.6750E+00
SPEC IE	:s	- MULE FRACTIONS			SPEC 1E S	;	- MOLE FRACTIONS	
					_			
F	1.4144E-01	1.5656E-01	1.8755E-01		E -	1.5519E-01	1.7606E-01	2.1471E-01
A	7.1716E-01	6.8761E-01	6.2784E-01		Α.	6.8969E-01	6.4959E-01	5.7659E-01.
A+	1.4137E-01	1.5511E-01	1.8168E-01		A+	1.5506E-01	1.7263E-01	2.0269E-01
A++	3.5480E-05	7.2419E-04	2.9316E-03	•	A++	6.1568E-05	1.7130E-03	6.0072E-03
A+++	5.0615E-12	1.6064E-08	5.2048E-07		A+++	1.8321E-11	1.2925E-07	3-1561E-06
A++++	1.4060E-22	8.4989E-16	5.3685E-13		A++++	1.4919E-21	3.8643E-14	1.5539E-11
AV	9.2715E-37	1.1524E-25	3.3544E-21		AV	3.9714E-35	4.8411E-23	7-2914E-19
IVA	7.0732E-55	2.1668E-38	7.1941E-32		AVI	1.7216E-52	1.4091E-34.	
IIVA	6.5403E-79	6.1776E-55	1.1856E-45		IIVA	1.8105E-75	1.5923E-49	8-6313E-41
AVIII -	0.	6.2504E-75	2.0435E-62		1 I I VA	0.	1.1831E-67	7-2766E-56
P1 =	5.00E+05 N/SQ-M	, US1= 7.80E+0	D3 M/SEC		P1 = 5	5.00E+05 N/SQ-M	, US1= 8.20E+0	- 3 M/SEC
P1 =					P1 = 5	•	•	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 8.6893E+02	STANDING SHOCK 6.5267E+03	REFLECTED SHOCK 9.4230E+03		ρ.	MOVING SHOCK 9.6602E+02	STANDING SHOCK 7.5735E+03	REFLECTED SHOCK 1.1044E+04
P T	MOVING SHOCK 8.6893E+02 8.0837E+01	STANDING SHOCK 6.5267E+03 1.1923E+02	REFLECTED SHOCK 9.4230E+03 1.4190E+02		р. - Т	MOVING SHOCK 9.6602E+02 8.4301E+01	STANDING SHOCK 7.5735E+03 1.3090E+02	REFLECTED SHOCK 1.1044E+04 1.5614E+02
P T RHO	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00	STANDING SHOCK 6.5267E+03 1.1923E+02 4.5660E+01	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01		Р · · Т RHO	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01	REFLECTED SHDCK 1.1044E+04 1.5614E+02 5.4533E+01
P T	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02	STANDING SHOCK 6.5267E+03 1.1923E+02 4.5660E+01 3.4194E+02	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02		Р Т RHO H	MDVING SHDCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01 3.7979E+02	REFLECTED SHOCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02
P T RHO H	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00	STANDING SHOCK 6.5267E+03 1.1923E+02 4.5660E+01 3.4194E+02 1.0189E+01	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01	·	P T RHO H	MOVING SHDCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01 3.7979E+02 1.0961E+01	REFLECTED SHOCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01
P T RHO H A	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00	STANDING SHOCK 6.5267E+03 1.1923E+02 4.5660E+01 3.4194E+02 1.0189E+01 1.5786F+00	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00		Р Т RHO H	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00	STANDING SHOCK 7-5735E+03 1-3090E+02 4-7041E+01 3-7979E+02 1-0961E+01 1-6124E+00	REFLECTED SHOCK 1.1044E-04 1.5614E-02 5.4533E-01 4.6088E-02 1.2455E-01 1.6675E-00
P T RHO H A S	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00 1.1741E+00	STANDING SHOCK 6-5267E+03 1-1923E+02 4-5660E+01 3-4194E+02 1-0189E+01 1-5786F+00 1-1989E+00	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00		P T RHO H A S	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.1935E+00	STANDING SHOCK 7-5735E+03 1-3090E+02 4-7041E+01 3-7979E+02 1-0961E+01 1-6124E+00 1-2300E+00	REFLECTED SHOCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00 1.2970E+00
P T RHO H A	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00	STANDING SHOCK 6.5267E+03 1.1923E+02 4.5660E+01 3.4194E+02 1.0189E+01 1.5786F+00	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00		P· · T RHO H A S	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00	STANDING SHOCK 7-5735E+03 1-3090E+02 4-7041E+01 3-7979E+02 1-0961E+01 1-6124E+00	REFLECTED SHOCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00
P T RHO H A S S Z GAME	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00 1.4944E+00 6.6915E-01 2.1539E+01	STANDING SHOCK 6-5267E-03 1-1923E-02 4-5660E+01 3-4194E+02 1.0189E+01 1.5786E-00 1.1989E-00 7-2629E-01	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00 7.5751E-01 4.4890E+00		P. T RHO H A S Z GAME	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.1935E+00 6.6965E-01 2.2780E+01	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01 3.7979E+02 1.0961E+01 1.6124E+00 1.2300E+00 7.4619E-01	REFLECTED SHDCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00 1.2970E+00 7.6600E+01 4.8639E+00
P T RHO H A S Z GAME U	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00 1.4944E+00 1.1741E+00 6.6915E-01 2.1539E+01	STANDING SHOCK 6-5267E+03 1-1923E+02 4-5660E+01 3-4194E+02 1.0189E+01 1-5786E+00 1-1989E+00 7-2629E-01 4-3239E+00	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00 7.5751E-01 4.4890E+00		P T RHO H A S Z GAME U	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.1935E+00 6.6965E-01 2.2780E+01	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01 3.7979E+02 1.0961E+01 1.6124E+00 1.2300E+00 7.4619E-01 4.6549E+00	REFLECTED SHDCK 1.1044E+04 1.5614F+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00 1.2970E+00 7.6600E-01 4.8639E+00
P T RHO H A S Z GAME U	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00 1.4944E+00 6.6915E-01 2.1539E+01	STANDING SHOCK 6-5267E+03 1-1923E+02 4-5660E+01 3-4194E+02 1-0189E+01 1-5786E+00 1-1989E+00 7-2629E-01 4-3239E+00	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00 7.5751E-01 4.4890E+00		P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.1935E+00 6.9965E-01 2.2780E+01	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01 3.7979E+02 1.0961E+01 1.6124E+00 1.2300E+00 7.4619E-01 4.6549E+00	REFLECTED SHDCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00 1.2970E+00 7.6600E-01 4.8639E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00 1.741E+00 6.6915E-01 2.1539E+01	STANDING SMOCK 6-5267E+03 1-1923E+02 4-5660E+01 3-4194E+02 1-0189E+01 1-5786E+00 7-2629E-01 4-3239E+00 - MOLE FRACTIONS 1-6591E-01 6-6931E-01	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00 7.5751E-01 4.4890E+00		P T RHO H A S Z GAME U SPEC IES	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.1935E+00 6.6965E-01 2.2780E+01	STANDING SHOCK 7-5735E+03 1-3090E+02 4-7041E+01 3-7979E+02 1-0961E+01 1-6124E+00 1-2300E+00 7-4619E-01 4-6549E+00  - MOLE FRACTIONS 1-8697E-01 6-2860E-01	REFLECTED SHOCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00 1.2970E+00 7.6600E-01 4.8639E+00
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00 1.741E+00 6.6915E-01 2.1539E+01 S	STANDING SHOCK 6.5267E+03 1.1923E+02 4.5660E+01 3.4194E+02 1.0189E+01 1.5786F+00 1.1989E+00 7.2629E-01 4.3239E+00  - MOLE FRACTIONS 1.6591E-01 6.6931E-01 1.6366E-01	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00 7.5751E-01 4.4890E+00  2-0081E-01 6.0267E-01 1.9221E-01	•	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.1935E+01 2.2780E+01 1.6209E-01 6.7589E-01 1.6193E-01	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01 3.7979E+02 1.0961E+01 1.6124E+00 1.2300E+00 7.4619E-01 4.6549E+00  - MOLE FRACTIONS 1.8697E-01 6.2860E-01 1.8189E-01	REFLECTED SHDCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00 1.2970E+00 7.6600E-01 4.8639E+00
P T RHO H A S Z GAME U SPECIE E- A A+	MOVING SHOCK 8.6893E+02 8.083TE+01 9.1550E+00 1.9353E+02 7.9694E+00 1.4944E+00 6.6915E-01 2.1539E+01 S	STANDING SHOCK 6-5267E+03 1-1923E+02 4-5660E+01 3-4194E+02 1-0189E+00 1-1989E+00 7-2629E-01 4-3239E+00  - MOLE FRACTIONS 1-6591E-01 6-6931E-01 1-6366E-01 1-1244E-03	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00 7.5751E-01 4.4890E+00  2.0081E-01 6.0267E-01 1.9221E-01 4.2991E-03		P T RHO H A S 2 GAME U SPECIES E~ A A+	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.1935E+00 6.9965E-01 2.2780E+01 1.6209E-01 6.7589E-01 1.6193E-01 8.0966E-01	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01 3.7979E+02 1.0961E+01 1.6124E+00 1.2300E+00 7.4619E-01 4.6549E+00  - MOLE FRACTIONS 1.8697E-01 6.2860E-01 1.8189E-01 2.5384E-03	REFLECTED SHOCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00 1.2970E+00 7.6600E-01 4.8639E+00
P T RHO H A S S Z GAME U SPECIE E-A A A+A+++	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00 1.4944E+00 1.741E+00 6.6915E-01 2.1539E+01 **S**********************************	STANDING SHOCK 6.5267E+03 1.1923E+02 4.5660E+01 3.4194E+02 1.0189E+01 1.5786E+00 1.1989E+00 7.2629E-01 4.3239E+00  - MOLE FRACTIONS 1.6591E-01 6.6931E-01 1.6366E-01 1.1244E-03 4.648BE-08	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 7.5751E-01 4.4890E+00  2.0081E-01 6.0267E-01 1.9221E-01 4.2991E-03 1.3542E-06		P T RHO H A S Z GAME U SPECIES E A A+ A++ A+++	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.1935E+00 6.9965E-01 2.2780E+01 1.6209E-01 6.7589E-01 1.6193E-01 8.0966E-05 3.4776E-11	STANDING SHOCK 7.5735E+03 1.3090E+02 4.704IE+01 3.7979E+02 1.096IE+01 1.6124E+00 1.2300E+00 7.4619E-01 4.6549E+00  - MOLE FRACTIONS 1.8697E-01 6.2860E-01 1.8189E-01 2.5384E-03 3.3861E-07	REFLECTED SHDCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00 1.2970E+00 7.6600E-01 4.8639E+00
P T RHO H A S Z GAME U SPECIE E-A A A+A+++	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00 1.741E+00 6.6915E-01 2.1539E+01 S	STANDING SMOCK 6-5267E-03 1-1923E-02 4-5660E+01 3-4194E+02 1.0189E+01 1.5786E+00 1-1989E+00 7-2629E-01 4-3239E+00  - MOLE FRACTIONS 1-6591E-01 6-6931E-01 1-6366E-01 1-1244E-03 4-6488E-08 5-9349E-15	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00 7.5751E-01 4.4890E+00  2-0081E-01 6.0267E-01 1.9221E-01 4.2991E-03 1.3542E-06 3.1784E-12	•	P T RHO H A S Z GAME U SPECIES E- A A+ A++ A+++	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.1935E+00 6.6965E-01 2.2780E+01 1.6209E-01 6.7589E-01 1.6193E-01 8.0966E-05 3.4776E-11 4.8268E-21	STANDING SHOCK 7.5735E+03 1.3090E+02 4.704IE+01 3.7979E+02 1.096IE+01 1.6124E+00 1.2300E+00 7.4619E-01 4.6549E+00  - MOLE FRACTIONS 1.8697E-01 6.2860E-01 1.8189E-01 2.5384E-03 3.3861E-07 2.2719E-13	REFLECTED SHOCK 1.104 4E + 04 1.561 4E + 02 5. +533E + 01 4.608 8E + 02 1.245 5E + 01 1.667 5E + 00 1.297 0E + 00 7.6600E - 01 4.863 9E + 00
P T RHO H A S Z GAME U SPECIE E-A A+A+A+A+A A+A	MOVING SHOCK 8.6893E+02 8.083TE+01 9.1550E+00 1.9353E+02 7.9694E+00 1.1741E+00 6.6915E-01 2.1539E+01 1.4831E-01 7.0343E-01 1.4821E-01 4.66791E-05 9.6497E-12 4.6000E-22 6.1150E-36	STANDING SMOCK 6-5267E+03 1-1923E+02 4-5660E+01 3-4194E+02 1-0189E+01 1-5786E+00 7-2629E-01 4-3239E+00	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00 7.5751E-01 4.4890E+00  2.0081E-01 6.0267E-01 1.9221E-01 4.2991E-03 1.3542E-06 3.1784E-12 5.7300E-20		PT RHO HAS SZGAME USPECIES E~A+A+++A+++AV	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.935E+00 6.9965E-01 2.2780E+01  1.6209E-01 6.7589E-01 1.6193E-01 8.0966E-05 3.4776E-11 4.8268E-21 2.5575E-34	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01 3.7979E+02 1.0961E+01 1.6124E+00 1.2300E+00 7.4619E-01 4.6549E+00  - MOLE FRACTIONS 1.8697E-01 6.2860E-01 1.8189E-01 2.5384E-03 3.38b1E-07 2.2719E-13 8.0398E-22	REFLECTED SHOCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00 1.2970E+00 7.6600E-01 4.8639E+00
P T RHO H A S Z GAME U SPECIE E- A A+ A+++ A++++ AV AVI	MOVING SHOCK 8.6893E+02 8.0837E+01 9.1550E+00 1.9353E+02 7.9694E+00 1.741E+00 6.6915E-01 2.1539E+01 **S**********************************	STANDING SHOCK 6.5267E+03 1.1923E+02 4.5660E+01 3.4194E+02 1.0189E+01 1.5786E+00 1.1989E+00 7.2629E-01 4.3239E+00  - MOLE FRACTIONS 1.6591E-01 6.6931E-01 1.6366E-01 1.1244E-03 4.648E-08 5.9349E-15 2.4936E-24 1.8884E-36	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00 7.5751E-01 4.4890E+00  2.0081E-01 6.0267E-01 1.9221E-01 4.2991E-03 1.3542E-06 3.1784E-12 5.7300E-20 4.5696E-30		P T RHO H A S Z GAME U SPEC IES E~ A + A + + + + + A V I	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.5234E+01 2.2780E+01 4.6209E-01 6.7589E-01 1.6193E-01 8.0966E-05 3.4776E-11 4.8268E-21 2.5575E-34 2.5917E-53	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01 3.7979E+02 1.0961E+01 1.6124E+00 1.2300E+00 7.4619E-01 4.6549E+00  - MOLE FRACTIONS 1.8697E-01 6.2860E-01 1.8189E-01 2.5384E-03 3.3861E-07 2.2719E-13 8.0398E-22 8.4313E-33	REFLECTED SHDCK 1.104 4t+04 1.561 4t+02 5.4533E+01 4.6088t+02 1.245 5t+01 1.6675t+00 1.2970E+00 7.6600E-01 4.863 9E+00
P T RHO H A S Z GAME U SPECIE E-A A+A+A+A+A A+A	MOVING SHOCK 8.6893E+02 8.083TE+01 9.1550E+00 1.9353E+02 7.9694E+00 1.1741E+00 6.6915E-01 2.1539E+01 1.4831E-01 7.0343E-01 1.4821E-01 4.66791E-05 9.6497E-12 4.6000E-22 6.1150E-36	STANDING SMOCK 6-5267E+03 1-1923E+02 4-5660E+01 3-4194E+02 1-0189E+01 1-5786E+00 7-2629E-01 4-3239E+00	REFLECTED SHOCK 9.4230E+03 1.4190E+02 5.3073E+01 4.1263E+02 1.1597E+01 1.6318E+00 1.2513E+00 7.5751E-01 4.4890E+00  2.0081E-01 6.0267E-01 1.9221E-01 4.2991E-03 1.3542E-06 3.1784E-12 5.7300E-20		PT RHO HAS SZGAME USPECIES E~A+A+++A+++AV	MOVING SHOCK 9.6602E+02 8.4301E+01 9.6017E+00 2.1403E+02 8.2081E+00 1.5234E+00 1.935E+00 6.9965E-01 2.2780E+01  1.6209E-01 6.7589E-01 1.6193E-01 8.0966E-05 3.4776E-11 4.8268E-21 2.5575E-34	STANDING SHOCK 7.5735E+03 1.3090E+02 4.7041E+01 3.7979E+02 1.0961E+01 1.6124E+00 1.2300E+00 7.4619E-01 4.6549E+00  - MOLE FRACTIONS 1.8697E-01 6.2860E-01 1.8189E-01 2.5384E-03 3.38b1E-07 2.2719E-13 8.0398E-22	REFLECTED SHOCK 1.1044E+04 1.5614E+02 5.4533E+01 4.6088E+02 1.2455E+01 1.6675E+00 1.2970E+00 7.6600E-01 4.8639E+00

	5.00E+05 N/SQ-M	. US1= 8.40E+0	D3 M/SEC	P1 = 5	-00E+05 N/SQ-M	. U\$1= 8.80E+0	3 M/SEC
•							
	MOVING CHOCK	CTANDING CHOCK	REFLECTED SHOCK		MOUTHE SHOCK	STANDING SHOCK	REFLECTED SHOCK
	MOVING SHOCK 1.0158E+03	8.1030E+03	1.1879E+04	P	1.1188E+03	9.1849E+03	1.3603E+04
	8.6122E+01	1.3684E+02		· ·	9.0008E+01	1.4860E+02	1.7639E+02
8.40	9.8011E+00	4.7471E+01	5.5146E+01	RHO	1.0152E+01	4.8075E+01	5.6153E+01
H	2.2464E+02	3.9915E+02	4.8570E+02	. н	2.4660E+02	4.3910E+02	5.3700E+02
4	8.3379E+00	1.1333E+01	1.28766+01	,, A	8.6243E+00	1.2052E+01	1.3719E+01
ŝ	1.5382E+00	1.6287E+00	1.6848E+00	Š	1.5679E+00	1.6605E+00	1.7184E+00
. E .	1.2035E+00	1.2474E+00	1.3214E+00	ž	1.2244E+00	1.2856E+00	1.3734E+00
GAME	6.7076E-01	7.5240E-01	7.6962E-01	GAME	6.7493E-01	7.6028E-01	7.7695E-01
U	2.3386E+01	4.8333E+00		Ü	2.4587E+01	5.1971E+00	5.4233E+00
•		•			•		•
SPECI	ES	- MULE FRACTIONS	;	SPEC IES		- MOLE FRACTIONS	
	1.6906E-01	.1.9833E-01	2.4324E-01	E	1.8325E-01	2.2218E-01	2.7187E-01
1	6.6198E-01	6.0694E-01	5.2383E-01	Ä	6.3369E-01	.5.6214E-01	4.7184E-01
Ā	1.6885E-01	1.9112E-01	2.2263E-01	Ã÷	1.8288E-01	2.0918E-01	2.4074E-01
A	1.0647E-04	3.6062E-03	1.0288E-02	A++	1.8521E-04	6.4959E-03	1.5513E-02
	6.6016E-11	8.0611E-07	1.2601E-05	A+++ ·	2.4212E-10	3.5272E-06	3-6735E-05
	1.5568E-20	1.1283E-12	2.1630E-10	A+++	1.6708E-19	1.7703E-11	1.7183E-09.
AV	1.6275E-33	1.0277E-20	5.1172E-17	AV	6.9613E-32	8.3603E-19	1.4959E-15
AVI .	3.7764E-50	3.4681E-31	1.0100E-25	AVI	8-8894E-48	2.1731E-28	1.5150E-23
AVEL	3.8603E-72	1.0242E-44	6.4446E-37	. IIVA	9.4551E-69	9.5278E-41	8.0819E-34
AVELL	0.	3.4621E-61	1.2341 E-50	1 I I VA	5.6479E-94	7.6576E-56	1.9133E-46
					•		
	,	•					
P1 =	9.00E+05 N/SQ-M	, US1= 8.60E+0	3 M/SEC	P1 = 5	-00E+05 N/SQ-M	, US1= 9.00E+0	3 M/SEC
7					•		•
٠	MOVING, SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
•	1.0669E+03	8.6445E+03	1.2739E+04	P	1.1718E+03	9.7324E+03	1.4482E+04
	8.8022E+01	1.4278E+02	1.6978E+02	т.	9.2097E+01	1.5435E+02	1.8291E+02
CHR .	9.9865E+00	4.7822E+01	5.5702E+01	RHD	1.0300E+01	4.8273E+01	5.6523E+01-
PÅ	2.3550E+02	4.1898E+02	5.1115E+02	н	2.5796E+02	4.5969E+02	5.6348E+02 7
A	8.4763E+00	1.1697E+01 .	1.3298E+01	A	8.7835E+00	1.2405E+01	1.4143E+01
. <b>S</b>	1.5530E+00	1.6448E+00	1.701 7E+00	S	1.5829E+00	1.6761E+00	1.7350E+00
l :	1.2137E+30	1.2660E+00	· 1.3470E+00	· Z	1:2354E+00	1.3062E+00	1.4007E+00 :
GANE	6.7250E-01	7.5687E-01.	· 7.7327E-01	GAME	6.7811E-01	7.6323E-01	7.8068E-01
0	2.3992E+01	5.0152E+00	5.2383E+00	U	2.5182E+01	5.3779E+00	5.6084E+00
SPECI	ES	- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	,
g- ·	1.7619E-01	2.1014E-01	2.5761E-01	E÷	1.9051E-01	2.3445E-01	2.8608E-01
A crs	6.4793E-01	5.8466E-01	4.9762E-01	A	6.1922E-01	5.3941E-01	4.4640E-01
<b>A</b> •	- 1.7582E-01	2.0027E-01	2.3195E-01	A+	1.9002E-01	2.1785E-01	2.4901E-01
<b>A</b> • •	1.4025E-04	4.9331E-03	1.2797E-02	A++	2.4549E-04	8.2895E-03	1.8451E-02
	1.2606E-10	1.7624E-06	2.2234E-05	A+++	4.6983E-10	6.5609E-06	5-7733E-05
A0000	5.0841E-20	4.8313E-12	6.4692E-10	A++++	5.5998E-19	5.7043E-11	4.1703E-09
AV.:	1.0651E-32	1.0460E-19	3.0375E-16	AV	4.7236E-31	5.4781E-18	6-3923E-15
AYI	5.8825E-49	1.0324E-29	1.4161E-24	AVI	1.4477E-46	3.4455E-27	1-3200E-22
-A11:	2.0359E-70	1.2632E-42	2.7661E-35	AVII	5.2060E-67	4.8233E-39	
VÁLLT.	. 0 •	2.2669E-58	1.9874F-48	ITIVA	1.3549E-91	1.5223E-53	1.2438E-44

P1 = 5.0	0E+05 N/SQ-M	, US1= 9.20E+0	3 M/SEC	P1 = 5	.00E+05 N/SQ-M	• US1= 9.60E+0	3 M/SEC
	OVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVENG SHOCK	STANDING SHOCK	REFLECTED SHOCK
	1.2259E+03	1.0281E+04	1.5362E+04	ρ .	1.3378E+03	1.1364E+04	1.7136E+04
Ť		1.5987E+02	1.8932E+02	Ť	9.9109E+01	1.7090E+02	2.0196E+02
	9.4301E+01			RHO			
RHO	1.0427E+01	4.8457E+01	5.6791E+01		1.0619E+01	4.8420E+01	5.7047E+01°
Н	2.6956E+02	4.8068E+02	5.9046E+02	H	2.9354E+02	5.2396E+02	6.4646E+02
A	8.9550E+00	1.2748E+01	1.4566E+01	A	9.3391E+00	1.3457E+01	1.5420E+01
S	1.5979E+00	1.6910E+00	1.7514E+00	S	1.6279E+00	1.7219E+00	1.7839E+00
2	1.2468E+00	1.3272E+00	1.4288E+00	Z	1.2711E+00	1.3732E+00	1.4873E+00
GAME .	6.8207E-01	7.6598E-01	7.8438E-01	GAME	6.9235E-01	7.7161E-01	7.9157E-01
U	2.5772E+01	5.5538E+00	5.791 0E+00	U	2.6954E+01	5.9368E+00	6.1635E+00
SPECIES	·	- MOLE FRACTIONS		SPECIES		- MOLE FRACTIONS	
E-	1.9793E-01	2.4651E-01	3.0011E-01	E-	2.1326E-01	2.7180E-01	3.2765E-01 ·
A	6.0447E-01	5.1725E-01	4.21546-01	A A	5.7406E-01	4.7135E-01	3.7360E-01
Ã+	1.9727E-01	2.2599E-01	2.5666E-01	Ã+	2.1209E-01	2.4195E-01	2.7001E-01
		1.0243E-02	2.1595E-02	A++	5.8672E+04	1.4879E-02	2.8553E-02
A++	3.2673E-04						
A+++	9.2129E-10	1.1300E-05	8.6850E-05	A+++	3.6713E-09	2.96098-05	1.7787E-04
A++++	1.9084E-18	1.6027E-10	9.3420E-09	A++++	2.3565E-17	1.01526-09	3.9001 E-06
	3.2731E-30	2.8990E-17	2.4053E-14	AV	1.7211E-28	5.7589E-16	2.5401E-13
IVA	2.4022E-45	4.0175E-26	9.5538E-22	IVA	7.4828E-43	3.3345E-24	3-2600E-20
AVII	2.8474E-65	1.5810E-37	2.9580E-31	IIVA	9.9466E-62	8.4231E-35	4.5044E-29
AVILI	2.9771E-89	1.6890E-51	5.6521 E-43	TIIVA	1.7194E-84	8.1027E-48	5-0977E-40 °
٠.			•				*
			•	•			
P1 = 5.	00E+05 N/S4-M	. US1= 9.40E+0	3 M/SEC	P1 * 5	.00E+05 N/SQ-M	. US1= 9.80E+0	3 M/SEC
			•				
					MONTHS SHOCK		DEE: FEEED CHOCK
		STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
	1.2810E+03	1.0825E+04	1.6242E+04	. Р	1.3946E+03	1.1890E+04	1.7995E+04
	9.6632E+01	1.6548E+02	1.9555E+02	Ţ	1.0173E+02	1.7618E+02	2.0820E+02
	1.0532E+01	4.8457E+01	5.7007E+01	RHO	1.0678E+01	4.8309E+01	5.6933E+01
H	2.8142E+02	5.0206E+02	6.1804E+02	H	3.0589E+02	5.4609E+02	6.7504E+02
	·9.1398E+00	1.3105E+01	1.4984E+01	Α	9.5520E+00	1.3806E+01	1.5851E+01
S	1.6129E+00	1.7067E+00	1.7672E+00	S .	1.6428E+00	1.7369E+00	1.8004E+00 🕆
ž **·	1.2587E+00	1.35005+00	1.4570E+00	Z	1.2841E+00	1.3970E+00	1-5180E+00 }
GAME	6.8683E-01	7.6878E-01	7.8797E-01	GAME	6.9851E-01	7.7446E-01	7.9495E-01 · *
U	2.6358E+01	5.7303E+00	5.9778E+00	U .	2.7531E+01	6.1103E+00	6.3476E+00 0
SPEC IES		HOLES ED LET COLO		SPECIES		_ MOLE EDACTIONS	
SPECIES		- MOLE FRACTIONS	·	JPECIE 3	,	- MOLE PRACILINAS	
	2.0551E-01	2.59276-01	3.1366E-01	E-	2.2122E-01	2.8419E-01	3.4126E-01
A 1 1	5.8942E-01	4.9399E-01	3.9782E-01	Ą	5.5835E-01	4.4915E-01	3.5040E-01
A+	2.0463E-01	2.3424E-01	2.6352E-01	A+	2.1964E-01	2.4919E-01	2.7568E-01
A++ '	4.3680E-04	1.2486E-02	2.4880E-02	A++	7.9041E-04	1.7430E-02	3.2421E-02
A+++	1.8275E-09	1.8815E-05	1.2517E-04	A+++	7.4353E-09	4.4598E-05	2.4504E-04
A++++ .	. 6.6318E-18	4.2437E-10	1.9331E-08	A++++	8.4830E-17	2.2428E-09	7-4166E-08#*
AV	2.3340E-29	1.3991E-16	7.9743E-14	AV	1.2915E-27	2.0902E-15	7.3479E-13
AVI	4.1422E-44	4.1056E-25	5.7453E-21	IVA	1.3779E-41	2.2557E~23	1.6035E-19 -
IIVA				A 14 T T	/ 13/65 /0		
	1.6328E-63	4.2917E-36	3.8080E-30	1IVA	6.1265E-60	1.2739E-33	4.3399E-28
ILIVA	6.8954E-87	1.4522E-49	3.8080E-30 1.7986E-41	AVIII	4-2180E-82	1.2739E-33 3.1762E-46	4.3399E-28

Pl	5.00E+05 N/SQ-H	• US1= 1.00E+0	04 M/SEC	P1 = 1	5.00E+05 N/SQ-M	. US1= 1.04E+0	04 M/SEC
17 4	MOVING SHOCK	CTANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
	1-4528E+03	1.2402E+04	1:8834E+04	Р	1.5714E+03	1.3385E+04	2.04485+94
T	1-0449E+02	· 1.8135E+02	2.1431E+02	ŕ	1.1044E+02	1.9141E+02	2.2606E+02
R'HO				RHO	1.0726E+01	4.7508E+01	5.61595+01
	1.0715E+01	4.8110E+01	5.6734E+01				
H	3.1848E+02	5.6856E+02	7.0409E+02	Ħ,	3.4439E+02	6.1457E+02	7.6356E+02
A	9.7777E+00	1.4155E+01	1.6277E+01	A	1.0257E+01	1.4852E+01	1.7108E+01
S	1.6576E+00	1.7519E+00	1.8167E+00	S	1.6870E+00	1.7817E+00	1.8483E+00
Z	1.2976E+00	1.4214E+00	1.5490E+00	1	1.3266E+00	1.4719E+00	1.6106E+00
GAME	7.0509E-01	7.7731E-01	7.9813E-01	GAME	7.1810E-01	7.8294E-01	8.0384E-01
U	2.8102E+01	6.2856E+00	6.5311E+0C	U	2.9230E+01	6.6208E+00	6.8962E+00
SPEC IE	s	- MOLE FRACTIONS		SPECIE	s	- MOLE FRACTIONS	
E-	2.2938E-01	2.9647E-01	3.5442E-01	£ <b>-</b>	2.4622E-01	3.2061E-01	3.7913E-01
A	5.4232E-01	4.2733E-01	3-2830F-01	A	5.0950E-01	3.8510E-01	2.8785E-01
A+ ·	2.2724E-01	2.5599E-01	2.8048E-01	A+	2.4235E-01	2.6808E-01	2.8745E-01 ···
A++	1.0668E-03	2.0147E-02	3.6473E-02	A++ .	1.9343E-03	2.6076E-02	4.5009E-02 ··
A+++	1.5156E-08	6.4846E-05	3.2877E-04	A+++	6.2713E-08	1.2589E-04	5.51 71 E-04
A++++	3.0922E-16	4.6447E-09	1.3411E-07	A++++	4.0744E-15	1.7032E-08	3.8336E-07
AV	9.9150E-27	6.8468E-15	1.9600E-12	AV	5.7320E-25	5.7266E-14	1.1202E-11
AVI	2.6483E-40	1.3138E-22	6.9902E-19	ĀVI	9.3730E-38	3.0989E-21	9.6005E-18
IIVA	4.1184E-58	1.55596-32	3.5168E-27	AVII	1.6719E-54	1.3838E-30	1.45126-25
AVIII	1.2436E-79	9.3254E-45	1.8527E-37	LIIVA	8.5566E-75	4.0059E-42	2.82446-35
	marja Logis (M. 191						
e <b>P1</b> -	5.00E+05 N/SQ-M	. US1= 1.02E+0	4 M/SEC	P1 = 3	5.00E+05 N/SQ-M	. US1= 1.06E+0	4 M/SEC
$p_{ij}^{(k)}$ $p_{ij}^{(k)}$ $p_{ij}^{(k)}$	e. 100			•			
77.		STANDING SHOCK		_	MOVING SHOCK		REFLECTED SHOCK
.P 🐒 5	1.5117E+03	1.2900E+04	1.9651E+04	Р	1.6321E+03	1.3857E+04	2.1227E+04
T J	1.0740E+02	1.8643E+02	2.2017E+02	Ţ	1.1359E+02	1.9632E+02	2.3200E+02
≠RHO 🐪	1.0729E+01	4.7842E+01	5.6518E+01	RHO	1.0707E+01	4.7122E+01	5.5686E+01 -
н	3.3131E+02	5.9139E+02	7.33608+02	н	3.5771E+02	6.3810E+02	7.9402E+02
A	'. 1.0014E+01	. 1.4504E+01	1.6689E+01	<b>A</b>	1.0503E+01	1.5200E+01	1.7534E+01
S ,	1.6724E+00	1.7668E+00	1.8323E+00	S	1.7015E+30	1.7965E+00	1.8647E+00 c
Z '	1.3118E+00	1.4464E+00	1.5792E+00	ı	1.3420E+00	1.4979E+00	1.6431E+00
GAME	7.11758-01	7.8015E-01	8.0105E-01	GAME	7-2373E-01	7.8566E-01	8.0649E-01 :
Ù	2.8669E+01	6.4541E+00	6.7141E+00	U	2.9787E+01	6.7879E+00	7.0784E+00
SPECIE	s	- MOLE FRACTIONS		SPECIES	s <del></del> -	- MOLE FRACTIONS	
E-	2.3771E-01	3.0863E-01	3.6678E-01	E-	2.5485E-01	3.3240E-01	3.9141E-01
Ā -	5.2601E-01	4.0596E-01	3.0788E-01	Ā	4.9289E-01	3.6483E-01	2.6834E-01
A+	2.3484E-01	2.6229E-01	2.8432E-01	A+	2.4968E-01	2.7332E-01	2.89818-01
A++	1.4390E-03	2.3030E-02	4.0586E-02	Ä++	2.5817E-03	2.9285E-02	4.97428-02
A+++	3.0918E-08	9.1527E-05	4.2832E-04	A+++	1.2550E-07	1.6931E-04	7.0304E-04
A++++	1.12796-15	9.1092E-09	2.2924E-07	A++++	1.4382E-14	3.0548E-08	6.2806E-07
AV	7.5948E-26	2.0570E-14	4.7707E-12	AV	4.1767E-24	1.4916E-13	2.5435E-11
AVI	5.0344E-39	6.7471E-22		· AVI			
AVII	2.6651E-56	1.58936-31	2.6615E-18 2.3510E-26	AVII	1.6620E-36 9.8073E-53	1.2909E-20 1.0480E-29	3.2929E-17 8.3361E-25
	3.3321E-77	2.1538E-43		AVIII			
IIIVA	3.33215-11	2.13305-43	2.4142E-36	ATILI	2.0236E-72	6.1668E-41	2.9890E-34

TABLE I. - Continued

P1 = 5.	00E+05 N/SQ-M	, US1= 1.08E+0	4 M/SEC	P1 = 5	.00E+05 N/SQ-M	. US1= 1.15E+0	4 M/SEC
te i	MOVING SHOCK	STANDING SHOCK			MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
	1.6938E+03	1.4318E+04	2.1995E+04	P	1.9170E+03	1.5912E+04	2.4666E+04
T 1	1.1682E+02	2.0125E+02	2.3768E+02	τ,	1.2836E+02	2.1773E+02	2.5776E+02
RHO	1.0678E+01	4.6656E+01	5.5268E+01	RHO	1.0541E+01	4.5138E+01	5.3504E+01
H STA	3.7128E+02	6.6198E+02	8.2498E+02	н	4-2071E+02	7.4840E+02	9.3728E+02
<b>A</b> 4.	1.0749E+01	1.5554E+01	1.7942E+01	A	1.1572E+01	1.6760E+01	1.9403E+01
S.	1.7158E+00	1.8116E+00	1.8802E+00	S	1.7650E+00	1.8621E+00	1.9354E+00
ž .	1.3579E+00	1.5249E+00	1.6744E+00	2 .	1.4168E+00	1.6190E+00	1.7886E+00
GAME	7.2834E-01	7.8834E-01	8.0892E-01	GAME	7.3630E-01	7.9685E-01	8.1657E-01
U	3.0340E+01	6.9583E+00	7.2608E+00	, U	3.2250E+01	7.5500E+00	7 9012E+00
SPEC IES		- MOLE FRACTIONS		SPEC IES		- MOLE FRACTIONS	
E	2.6356E-01	3.4423E-01	4.0278E-01	E-	2.9417E-01	3-8234E-01	4-4089E-01
	4.7628E-01	3.4472E-01	2.5064E-01	Ā	4.1967E-01	2.8200E-01	1.9442E-01
Ã+	2.5674E-01	2.7809E-01	2.9125E-01	A+	2.7814E-01	2.8949E-01	2.9025E-01
A**	3.4097E-03	3.2736E-02	5.4453E-02	A++	8.0122E-03	4.5650E-02	7.2695E-02
A+++	2.4580E-07	2.2460E-04	8.7465E-04	A+++	2.0049E-06	5.1863E-04	1.7460E-03
A++++	4-8922E-14	5.3430E-08	9.8277E-07	A++++	2.2855E-12	2.8511E-07	4-1072E-06
AV	2.8756E-23	3.7322E-13	5.3612E-11	AV '	1.2488E-20	5.8937E-12	5.8447E-10
AVI.	2.7195E-35	5.0696E-20	1.0116E-16	IVA	1.8269E-31	3-1426E-18	3.7010E-15
AVII	5.1337E-51	7.2893E-29	4.0938E-24	1IVA	1.33316-45	2.5309E-26	6.7026E-22
	4.1150E-70	8.4556E-40	2.5711E-33	IIIVA	7.5597E-63	2.2735E-36	2.4893E-30
P1 = 5.	.00E+05 N/SQ-M	. US1= 1.10E+0	4 M/SEC	P1 = 5	.00E+05 N/SQ-M	I, US1= 1.20E+¢	04 M/SEC
				P1 = 5			
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	P1 = 5	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
Pizz	MOVING SHOCK 1.7556E+03	STANDING SHOCK 1.4754E+04	REFLECTED SHOCK 2.2734E+04		MOVING SHOCK 2.0857E+03	STANDING SHOCK 1.7119E+04	REFLECTED SHOCK
P	MOVING SHOCK 1.7556E+03 1.2010E+02	STANDING SHOCK 1.4754E+04 2.0595E+02	REFLECTED SHOCK 2-2734E+04 2-4338E+02	p ·	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P T RHO	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01	p T	MOVING SHOCK 2.0857E+03 1.3647E+02	STANDING SHOCK 1.7119E+04 2.2957E+02	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01
P T RHO	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02	STANDING SHOCK 1-4754E+04 2-0595E+02 4-6178E+01 6-8589E+02	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02	P T RHO	MOVING SHOCK 2.0857E+03 1.3647E+02 1.0459E+01	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01	REFLECTED SHOCK 2.6702E+04 2.7226E+02
P T RHO H	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01	P T RHO H	MOVING SHOCK 2.0857E+03 1.3647E+02 1.0459E+01 4.5794E+02	STANDING SHOCK 1-7119E+04 2-2957E+02 4-4156E+01 8-1364E+02	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03
P T RHO H	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00	STANDING SHOCK 1-4754E+04 2-0595E+02 4-6178E+01 6-8589E+02 1-5896E+01 1-8261E+00	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01	P T RHO H	MOVING SHOCK 2.0857E+03 1.3647E+02 1.0459E+01 4.5794E+02 1.2130E+01	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01
P T RHO H A S	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01	STANDING SHOCK 1-4754E+04 2-0595E+02 4-6178E+01 6-8589E+02 1-5896E+01	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8960E+00	Р Т RHO Н А S	MOVING SHOCK 2.0857E+03 1.3647E+02 1.0459E+01 4.5794E+02 1.2130E+01 1.7991E+00	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00
P T RHO H A S Z	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0790E+01 1.7300E+00 1.3742E+00	STANDING SHOCK 1-4754E+04 2-0595E+02 4-6178E+01 6-8589E+02 1-5896E+01 1-8261E+00 1-5514E+00	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7067E+00	P T RHO H A S Z	MOVING SHOCK 2-0857E+03 1-3647E+02 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 1.688E+00	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00
P T RHO H A 5 2 GAME U	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.0875E+01	STANDING SHOCK 1.4754E+04 2-0595E+02 4-6178E+01 6-8589E+02 1.5896E+01 1-8261E+00 1.5514E+00 7.9084E-01 7-1270E+00	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7067E+00 8.1121E-01 7.4512E+00	P T RHO H A S Z GAME U	MOVING SHOCK 2-0857E+03 1-3647E+02 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00 7-3778E-01 3-3627E+01	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 1.6888E+00 8.0238E-01 7.9797E+00	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E-01 8.3700E+00
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.9875E+01	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 1.5514E+00 7.9084E-01 7.1270E+00	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8950E+00 1.7057E+00 8.1121E-01 7.4512E+00	P T RHO H A S Z GAME U	MOVING SHOCK 2.0857E+03 1.3647E+02 1.0459E+01 4.5794E+02 1.2130E+01 1.7991E+00 1.4613E+00 7.3778E-01 3.3627E+01	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 1.6888E+00 8.0238E-01 7.9797E+00	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E+01 8.3700E+00
P T RHO H A S E GAME U SPECIES	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.0875E+01	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 1.5514E+00 7.9084E-01 7.1270E+00  - MOLE FRACTIONS 3.5543E-01	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7057E+00 8.1121E-01 7.4512E+00	P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 2-0857E+03 1-3647E+02 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00 7-3778E-01 3-3627E+01	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 1.6888E+00 8.0238E-01 7.9797E+00	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E-01 8.3700E+00
P T RHO H A S S Z GAME U SPECIES E-A	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 7.3181E-01 3.9875E+01	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 7.9084E-01 7.1270E+00 - MOLE FRACTIONS 3.5543E-01 3.2595E-01	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.896.0E+00 1.706.7E+00 8.1121E-01 7.4512E+00	P T RHO H A S Z GAME U SPECIES E- A	MOVING SHOCK 2-0857E+03 1-3647E+02 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00 7-3778E-01 3-3627E+01 3-1566E-01 3-8170E-01	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 8.0238E-01 7.9797E+00  - MOLE FRACTIONS 4.0785E-01 2.4211E-01	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E-01 8.3700E+00
P T RHO H A S Z GAME U SPECIES E-A A+	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.0875E+01	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 1.5514E+00 7.9084E-01 7.1270E+00  - MOLE FRACTIONS 3.5543E-01 3.2595E-01 2.8210E-01	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7067E+00 8.1121E-01 7.4512E+00 4.1407E-01 2.3347E-01 2.9194E-01	P T RHO H A S GAME U SPECIES E- A	MOVING SHOCK 2-0857E+03 1-3647E+03 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00 7-3778E-01 3-3627E+01	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 1.6888E+00 8.0238E-01 7.9797E+00  - MOLE FRACTIONS 4.0785E-01 2.4211E-01 2.9309E-01	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E+01 8.3700E+00
P T RHO H A S Z GAME U SPECIES E-A A+A+A++	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.0875E+01	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 1.5514E+00 7.9084E-01 7.1270E+00  - MOLE FRACTIONS 3.5543E-01 3.2595E-01 2.8210E-01 3.6229E-02	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7067E+00 8.1121E-01 7.4512E+00 4.1407E-01 2.3347E-01 2.9194E-01 5.9443E-02	P T RHO H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 2-0857E+03 1-3647E+02 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00 7-3778E-01 3-3627E+01 3-1566E-01 3-8170E-01 2-8963E-01 1-3006E-02	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 1.6888E+00 8.0238E-01 7.9797E+00  - MOLE FRACTIONS 4.0785E-01 2.4211E-01 2.9309E-01 5.6081E-02 5.6081E-02	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E-01 8.3700E+00  4.6560E-01 1.6089E-01 2.8410E-01 8.6732E-02
P T RHO H A S Z GAME U SPECIES E-A A++++++++++++++++++++++++++++++++++	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.0875E+01 2.7233E-01 4.5979E-01 2.6344E-01 4.403E-03 4.6720E-07	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 1.5514E+00 7.9084E-01 7.1270E+00  - MOLE FRACTIONS 3.5543E-01 2.8210E-01 3.6229E-02 2.9009E-04	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7067E+00 8.1121E-01 7.4512E+00 4.1407E-01 2.3347E-01 2.9194E-01 5.944E-02 1.0792E-03	P T RHO H A S Z GAME U SPECIES E-A A+A A++	MOVING SHOCK 2.0857E+03 1.3647E+02 1.0459E+01 4.5794E+02 1.2130E+01 1.7991E+00 1.4613E+00 7.3778E-01 3.3627E+01	STANDING SHOCK 1.7119E+04 2.297E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 1.6888E+00 8.0238E-01 7.9797E+00 - MOLE FRACTIONS 4.0785E-01 2.4211E-01 2.9309E-01 5.6081E-02 8.6626E-04	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E-01 8.3700E+00  4.6560E-01 1.6089E-01 2.8410E-01 8.6732E-02 2.6662E-03
P T RHO H A S Z GAME U SPECIES E-A A A A A A A A A A A A A A A A A A A	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.9875E+01  2.7233E-01 4.5979E-01 2.6344E-01 4.403E-03 4.6720E-07 1.5791E-13	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 1.5514E+00 7.9084E-01 7.1270E+00  - MOLE FRACTIONS 3.5543E-01 3.2595E-01 2.8210E-01 3.6229E-02 2.9009E-04 8.8825E-08	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.473E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7067E+00 8.1121E-01 7.4512E+00  4.1407E-01 2.3347E-01 2.9194E-01 5.9443E-02 1.0792E-03 1.5130E-06	P T RHO H A S Z GAME U SPECIES E- A + A++ A+++ A++++ A++++	MOVING SHOCK 2-0857E+02 1-3647E+02 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00 7-3778E-01 3-3627E+01 3-1566E-01 3-8170E-01 2-8963E-01 1-3006E-02 6-8300E-06 2-2167E-11	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 8.0238E-01 7.9797E+00  - MOLE FRACTIONS 4.0785E-01 2.4211E-01 2.9309E-01 5.6081E-02 8.6626E-04 8.0926E-07	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.9713E+00 8.2149E-01 8.3700E+00
P T RHO H A S Z GAME U SPECIES E-A A+A A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A+A	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.0875E+01  2.7233E-01 4.5979E-01 2.6344E-01 4.4403E-03 4.6720E-07 1.5791E-13 1.8252E-22	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 1.5514E+00 7.9084E-01 7.1270E+00  - MOLE FRACTIONS 3.5543E-01 3.2595E-01 2.8210E-01 3.6229E-02 2.9009E-04 8.8825E-08 8.6025E-18	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7057E+00 8.1121E-01 7.4512E+00  4.1407E-01 2.3347E-01 2.9194E-01 5.9443E-02 1.0792E-03 1.5130E-06 1.1000E-10	P T RHO H A S Z GAME U SPECIES E- A A+++ A+++ AV	MOVING SHOCK 2-0857E+03 1-3647E+02 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00 7-3778E-01 3-3627E+01 3-1566E-01 3-8170E-01 2-8963E-01 1-3006E-02 6-8300E-06 2-2167E-11 4-6247E-19	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1346E+02 1.7637E+01 1.6888E+00 8.0238E-01 7.9797E+00  - MOLE FRACTIONS 4.0785E-01 2.9309E-01 5.6081E-02 8.626E-04 8.0926E-07 3.3250E-11	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E-01 8.3700E+00
P T RHO H A S Z GAME U SPECIES E-A A+A+++A+++AVI	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.9875E+01  2.7233E-01 4.5979E-01 2.6344E-01 4.403E-03 4.6720E-07 1.5791E-13 1.8252E-22 3.9593E-34	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 1.5514E+00 7.9084E-01 7.1270E+00  - MOLE FRACTIONS 3.5543E-01 3.2595E-01 2.8210E-01 3.6229E-02 2.9009E-04 8.8825E-08 8.6025E-13 1.7638E-19	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7067E+00 8.1121E-01 7.4512E+00  4.1407E-01 2.3347E-01 2.9194E-01 5.9443E-02 1.0792E-03 1.5130E-06 1.1000E-10 2.9830E-16	P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A+++ AV AVI	MOVING SHOCK 2-0857E+03 1-3647E+03 1-3647E+02 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00 7-3778E-01 3-3627E+01  3-1566E-01 3-8170E-01 2-8963E-01 1-3006E-02 6-8300E-06 2-2167E-11 4-6247E-19 3-5286E-29	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 1.6888E+00 8.0238E-01 7.9797E+00  - MOLE FRACTIONS 4.0785E-01 2.4211E-01 2.9309E-01 5.6081E-02 8.662E-04 8.0926E-07 3.3250E-11 4.2183E-17	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E+01 8.3700E+00  4.6560E+01 1.6089E+01 2.8410E+01 8.6732E+02 2.6662E+03 1.0028E+05 2.6251E+09 3.5859E+14
P T RHO H A S Z GAME U SPECIES E-A A A A A A A A A A A A A A A A A A A	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.9875E+01  2.7233E-01 4.5979E-01 4.4403E-03 4.6720E-07 1.5791E-13 1.8252E-22 3.9593E-34 2.2706E-49	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 1.5514E+00 7.9084E-01 7.1270E+00  - MOLE FRACTIONS 3.5543E-01 3.2595E-01 2.8210E-01 3.6229E-02 2.9009E-04 8.8825E-08 8.6025E-13 1.7634E-19 4.2656E-28	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.473E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7067E+00 8.1121E-01 7.4512E+00  4.1407E-01 2.3347E-01 2.9347E-01 2.9194E-01 5.9443E-02 1.0792E-03 1.5130E-06 1.1000E-10 2.9830E-16 1.8935E-23	P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A+++ AV AVI AVII	MOVING SHOCK 2-0857E+03 1-3647E+02 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00 7-3778E-01 3-3627E+01 3-3627E+01 3-3627E+01 1-3006E-01 1-3006E-02 6-8300E-02 1-2167E-11 1-6247E-19 1-5286E-29 2-3060E-42	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 1.6888E+00 8.0238E-01 7.9797E+00  - MOLE FRACTIONS 4.0785E-01 2.4211E-01 2.9309E-01.5.6081E-02 8.6626E-04 8.0926E-07 3.3250E-11 4.2183E-17 1.0045E-24	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E-01 8.3700E+00
P T RHO H A S Z GAME U SPECIES E-A A+A+++A+++AVI	MOVING SHOCK 1.7556E+03 1.2010E+02 1.0637E+01 3.8507E+02 1.0990E+01 1.7300E+00 1.3742E+00 7.3181E-01 3.9875E+01  2.7233E-01 4.5979E-01 2.6344E-01 4.403E-03 4.6720E-07 1.5791E-13 1.8252E-22 3.9593E-34	STANDING SHOCK 1.4754E+04 2.0595E+02 4.6178E+01 6.8589E+02 1.5896E+01 1.8261E+00 1.5514E+00 7.9084E-01 7.1270E+00  - MOLE FRACTIONS 3.5543E-01 3.2595E-01 2.8210E-01 3.6229E-02 2.9009E-04 8.8825E-08 8.6025E-13 1.7638E-19	REFLECTED SHOCK 2.2734E+04 2.4338E+02 5.4733E+01 8.5619E+02 1.8356E+01 1.8960E+00 1.7067E+00 8.1121E-01 7.4512E+00  4.1407E-01 2.3347E-01 2.9194E-01 5.9443E-02 1.0792E-03 1.5130E-06 1.1000E-10 2.9830E-16	P T RHO H A S Z GAME U SPECIES E- A A+ A+++ A+++ AV AVI	MOVING SHOCK 2-0857E+03 1-3647E+03 1-3647E+02 1-0459E+01 4-5794E+02 1-2130E+01 1-7991E+00 1-4613E+00 7-3778E-01 3-3627E+01  3-1566E-01 3-8170E-01 2-8963E-01 1-3006E-02 6-8300E-06 2-2167E-11 4-6247E-19 3-5286E-29	STANDING SHOCK 1.7119E+04 2.2957E+02 4.4156E+01 8.1364E+02 1.7637E+01 1.8978E+00 1.6888E+00 8.0238E-01 7.9797E+00  - MOLE FRACTIONS 4.0785E-01 2.4211E-01 2.9309E-01 5.6081E-02 8.662E-04 8.0926E-07 3.3250E-11 4.2183E-17	REFLECTED SHOCK 2.6702E+04 2.7226E+02 5.2413E+01 1.0225E+03 2.0458E+01 1.9741E+00 1.8713E+00 8.2149E+01 8.3700E+00  4.6560E+01 1.6089E+01 2.8410E+01 8.6732E+02 2.6662E+03 1.0028E+05 2.6251E+09 3.5859E+14

### $p_1 = 500 \text{ kN/m}^2$

	5.00E+05 N/SQ-M	• US1= 1.25E+0	4 M/SEC	P1 = 3	0.00E+05 N/SQ=M	, US1= 1.35E+0	7 A/JEC :
		_				*	
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	2.2617E+03	1.8371E+04	2.8842E+04	Р	2.6357E+03	2.1088E+04	3.3539E+04
T	1.4439E+02	2.4140E+02	2.8680E+02	Ť	1.5932E+02	2.6532E+02	3.1710E+02
RHD	1.0386E+01	4.3247E+01	5.1477E+01	RHG	1.0307E+01	4.1760E+01	4.9856E+01
н	4.9676E+02	8.8161E+02	1.1120E+03	. Kno	5.7917E+02	1.0258E+03	1.3027E+03
Ā				Ä	1.3804E+01	2.0303E+01	2.3707E+01
S	1.2687E+01	1.8519E+01	2.1515E+01	Ŝ		2.0017E+00	2.0869E+00
2	1.8331F+00	1.9330E+00	2.011 9E+00	. 3	1-8983E+00	1.9033E+00	2.1215E+00
GAME	1.5081 E+00	1.7597E+00	1.9536E+00	GAME	1.6050E+00 7.4514E-01	8.1626E-01	8.3548E-01
	7.3920E~01	8.0738E-01	8.2614E-01			9.3439E+00	9.8415E+00
U	3.5007E+01	8.4241E+00	8.8561E+00	U	3.7778E+01	9.34392400	7.04155400
SPEC (ES		- MOLE FRACTIONS		SPEC 1ES		- MULE FRACTIONS	
E-	3.3693E-01	4.3171E-01	4.8813E-01	E-	3.7696E-01	4.7459E-01	5.2863E-01
Ã	3.4552E-01	2.0665E-01	1.3264E-01	· Ā	2.8088E-01	1.4836E-01	8.8016E-02
A+ :	2.9819E-01	2.9293E-01	2.7426E-01	Ä÷	3.0746E-01	2.8246E-01	2.4560E-01
A++	1.9339E-02	6.7338E-02	1.0109E-01	Ä++	3.4611E-02	9.1642E-02	1.3032E-01
A+++	1.9175E-05	1.3634E-03	3.8672E-03	A+++	9.3412E-05	2.9326E-03	7.3425E-03
A++++			2.2266E-05	A++++	3.1924E-09	1.0344E-05	9.1363E-05
AV .	1.5379E-10	2.0605E-06		ÄV	1.3723E-15	2.3787E-09	1.1355E-07
ÄVI	1.02386-17	1.5790E-10	1-0141E-08	IVA		2.6507E-14	1.0977E-11
IIVA	3.2773E-27	4.3986E-16	2.7818E-13	AVII -	4.4511E-24 4.0043E-35	9.2814E-21	5.5662E-17
	1.4203E-39		3.0443E-19	AVIII		7.3387E-29	1.0625E-23
IIIVA	9.6149E-55	2.8822E-32	9.5245E-27	*****	9.5952E-49	1.33812-29	1.00256-53
•					•		
			•				•
01 - 6				n1 - 1		JIE3 - 1 40E46	A MARKE
P1 = 5	5.00E+05 N/SQ-M	• US1= 1.30E+0	4 M/SEC	P1 = 5	5.00E+05 N/SQ-M	. US1= 1.40E+0	04 M/SEC
P1 = 5				P1 = 5		,	04 M/SEC
P1 = 5	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK	P1 = 5	MOVING SHOCK	STANDING SHOCK	
P	MOVING SHOCK 2.4450E+03	STANDING SHOCK 1.9694E+04	REFLECTED SHOCK 3.1144E+04	P	MOVING SHOCK 2.8333E+03	STANDING SHDCK 2.2514E+04	REFLECTED SHOCK 3.6007E+04
	MOVING SHOCK 2.4450E+03 1.5191E+02	STANDING SHOCK 1.9694E+04 2.5338E+02	REFLECTED SHOCK 3.1144E+04 3.0182E+02		MOVING SHOCK 2.8333E+03 1.6662E+02	STANDING SHDCK 2.2514E+04 2.7740E+02	REFLECTED SHOCK
P T RHO	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01	Р Т RHO	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01	STANDING SHDCK 2.2514E+04 2.7740E+02 4.1078E+01	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01
P T RHO H	MOVING SMOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03	P T RHO H	MOVING SHOCK 2-8333E+03 1-6662E+02 1-0267E+01 6-2275E+02	STANDING SHDCK 2.2514E+04 2.7740E+02 4.1078E+01 1.1020E+03	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03
P T RHO H	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01	Р Т ЯНО Н А	MOVING SHOCK 2-8333E+03 1-6662E+02 1-0267E+01 6-2275E+02 1-4381E+01	STANDING SHOCK 2.2514E+04 2.7740E+02 4.1078E+01 1.1020E+03 2.1203E+01	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01
P T RHD H A S	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00	Р Т ЯНО Н А S	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00	STANDING SHDCK 2.2514e+04 2.7740e+02 4.1078e+01 1.1020e+03 2.1203e+01 2.0355e+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+01
P T RHO H A S	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 1.5554E+00	\$TANDING \$HOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00	P T RHO H A S Z	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00	STANDING SHOCK 2.2514E+04 2.7740E+02 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00
P T RHO H A S Z GAME	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 1.5554E+00 7.4163E-01	STANDING SHOCK 1.9694E+04 2.5538E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01	Р Т ЯНО Н А S	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00 7.4942E-01	STANDING SHDCK 2.2514e404 2.7740E402 4.1078E+01 1.1020E+01 2.0355E+00 1.9757E+00 8.2031E-01	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01
P T RHO H A S	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 1.5554E+00	\$TANDING \$HOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00	P T RHO H A S Z	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00	STANDING SHOCK 2.2514E+04 2.7740E+02 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00
P T RHO H A S Z GAME	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 1.5554E+00 7.4163E-01 3.6391E+01	STANDING SHOCK 1.9694E+04 2.5538E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00	P T RHO H A S Z	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00 7.4942E-01 3.9160E+01	STANDING SHDCK 2.2514e404 2.7740E402 4.1078E+01 1.1020E+01 2.0355E+00 1.9757E+00 8.2031E-01	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01 1.0347E+01
P T RHD H A S Z GAME U	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 1.5554E+00 7.4163E-01 3.6391E+01	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01 8.9080E+00	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00	P T RHO H A S S Z GANE U	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00 7.4942E-01 3.9160E+01	STANDING SHOCK 2.2514E+04 2.7740E+02 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00 8.2031E-01 9.7900E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01 1.0347E+01
P T RHO H A S Z GAME U	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 1.5554E+00 7.4163E-01 3.6391E+01	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01 8.9080E+00	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00	P T RHO M A S Z GANE U	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00 7.4942E-01 3.9160E+01	STANDING SHDCK 2.2514e404 2.7740E402 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00 8.2031E-01 9.7900E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01 1.0347E+01
PTRHOHA SCUMENTS SPECIES	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 7.4163E-01 3.6391E+01	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01 8.9080E+00	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00	P T RHO H A S Z Game U Species	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00 7.4942E-01 3.9160E+01	STANDING SHOCK 2.2514E+04 2.7740E+02 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00 8.2031E-01 9.7900E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01 1.0347E+01
P T RHD H A S Z GAME U SPECIES	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 7.4163E-01 3.6391E+01 3.5708E-01 3.1246E-01	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01 8.9080E+00	REFLECTED SHOCK 3.1146E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00	P T RHO H A S Z GAMÉ U SPECIES	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 7.4942E-01 3.9160E+01	STANDING SHOCK 2.2514E+04 2.7740E+02 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00 8.2031E-01 9.7900E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01 1.0347E+01 5-4627E-01 7-1274E-02
P T RHO H A S Z GAME U SPECIES	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 7.4163E-01 3.6391E+01 3.5708E-01 3.1246E-01 3.0389E-01 2.6526E-02	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01 8.9080E+00	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00  5.0920E-01 1.0839E-01 2.6115E-01 1.1580E-01	P T RHO A S Z Game U Species E- A A+	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00 7.4942E-01 3.9160E+01 3.9624E-01 2.5122E-01 3.0901E-01 4.3348E-02	STANDING SHOCK 2.2514E+04 2.7740E+02 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00 8.2031E-01 9.7900E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01 1.0347E+01  5.4627E-01 7.1274E-02 2.2861E-01
P T RHO H A S Z Z GANE U SPECIES	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 1.5554E+00 7.4163E-01 3.6391E+01 3.5708E-01 3.0389E-01 2.6526E-02 4.4798E-05	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01 8.9080E+00	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00	P T RHD H A S Z GAME U SPECIES E- A A+ A++	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00 7.4942E-01 3.9160E+01 3.9624E-01 2.5122E-01 3.0901E-01 4.3348E-02 1.7697E-04	STANDING SHDCK 2.2514E404 2.7740E402 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00 8.2031E-01 9.7900E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01 1.0347E+01  5.4627E-01 7.1274E-02 2.2861E-01 1.4406E-01
P T RHO H A S Z GAME U SPECIES	MOVING SMOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 1.5554E+00 7.4163E-01 3.6391E+01 3.5708E-01 3.1246E-01 3.0389E-01 2.6526E-02 4.4798E-05 7.7333E-10	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01 8.9080E+00  - MOLE FRACTIONS 4.5409E-01 1.7528E-01 2.8923E-01 7.9347E-02 2.0476E-03 4.8223E-06	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00  5.0920E-01 1.0839E-01 2.6115E-01 1.1580E-01 5.4197E-03 4.6528E-05	P T RHO H A S Z GANÉ U SPECIES E- A A+ A+ A++	MOVING SHOCK 2.8338+03 1.6662E+02 1.0267E+01 6.2275E+02 1.438E+01 1.9307E+00 1.6563E+00 7.4942E-01 3.9160E+01 3.9624E-01 2.5122E-01 3.901E-01 4.3348E-02 1.7697E-04 1.1144E-08	STANDING SHDCK 2.2514e404 2.7740E402 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00 8.2031E-01 9.7900E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E+01 1.0347E+01  5.4627E+01 7.1274E+02 2.2861E+01 1.406E+01 9.6230E+03
P T RHO H A S Z GANE U SPECIES E-A A A A A A A A A A A A A A A A A A A	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 7.4163E-01 3.6391E+01 3.5708E-01 3.1246E-01 3.0389E-01 2.6526E-02 4.4798E-05 7.7333E-10 1.3797E-16	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01 8.9080E+00	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00  5.0920E-01 1.0839E-01 2.6115E-01 1.1580E-01 5.4197E-03 4.6528E-05 3.5649E-08	P T RHD H A S Z GANÉ U SPECIES E- A A+ A++ A+++ A+++	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00 7.4942E-01 3.9160E+01 3.9624E-01 2.5122E-01 3.9001E-01 4.3348E-02 1.7697E-04 1.1144E-08 1.0534E-14	STANDING SHOCK 2.2514E+04 2.7740E+02 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00 8.2031E+01 9.7900E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01 1.0347E+01  5.4627E-01 7.1274E-02 2.2861E-01 1.4406E-01 9.6230E-03 1.6858E-04
P T RHO H A S C GAME U SPECIES E A A A A A A A A A A A A A A A A A A	MOVING SMOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 1.5554E+00 7.4163E-01 3.6391E+01 3.5708E-01 3.0389E-01 2.6526E-02 4.4798E-05 7.7333E-10 1.3797E-16	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E+01 8.9080E+00  - MOLE FRACTIONS 4.5409E+01 1.7528E+01 2.8923E+01 7.9347E+02 2.0476E+03 4.8223E+06 6.5666E+10 3.7786E+15	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00  5.0920E-01 1.0839E-01 2.6115E-01 1.1580E-01 5.4197E-03 4.6528E-05 3.5649E-08 1.8801E-12	P T RHO H A S Z GANE U SPECIES E- A A+ A++ A+++ AV	MOVING SHOCK 2.8338±03 1.6662±02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00 7.4942E-01 3.9160E+01 3.9624E-01 3.901E-01 4.3348E-02 1.7697E-04 1.1144E-08 1.0534E-14 9.1278E-23	STANDING SHDCK 2.2514e404 2.7740E402 4.1078E+01 1.1020E+01 2.0355E+00 1.9757E+00 8.2031E-01 9.7900E+00  - MOLE FRACTIONS 4.9385E-01 1.2481E-01 2.7294E-01 1.0431E-01 4.0652E-03 2.0896E-05 7.8329E-09 1.6147E-13	REFLECTED SHOCK 3.6007E+04 3.24-8E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01 1.034-7E+01  5-4627E-01 7-1274E-02 2.2861E-01 1.4406E-01 9.6230E-03 1.6858E-04 3.2747E-07 5.5281E-11
P T RHO H A S Z Z GANE U SPECIES E A A A A A A A A A A A A A A A A A A	MOVING SHOCK 2.4450E+03 1.5191E+02 1.0348E+01 5.3717E+02 1.3238E+01 1.8657E+00 7.4163E-01 3.6391E+01 3.5708E-01 3.1246E-01 3.0389E-01 2.6526E-02 4.4798E-05 7.7333E-10 1.3797E-16	STANDING SHOCK 1.9694E+04 2.5338E+02 4.2431E+01 9.5216E+02 1.9413E+01 1.9679E+00 1.8318E+00 8.1199E-01 8.9080E+00	REFLECTED SHOCK 3.1144E+04 3.0182E+02 5.0646E+01 1.2051E+03 2.2603E+01 2.0496E+00 2.0375E+00 8.3080E-01 9.3361E+00  5.0920E-01 1.0839E-01 2.6115E-01 1.1580E-01 5.4197E-03 4.6528E-05 3.5649E-08	P T RHD H A S Z GANÉ U SPECIES E- A A+ A++ A+++ A+++	MOVING SHOCK 2.8333E+03 1.6662E+02 1.0267E+01 6.2275E+02 1.4381E+01 1.9307E+00 1.6563E+00 7.4942E-01 3.9160E+01 3.9624E-01 2.5122E-01 3.9001E-01 4.3348E-02 1.7697E-04 1.1144E-08 1.0534E-14	STANDING SHOCK 2.2514E+04 2.7740E+02 4.1078E+01 1.1020E+03 2.1203E+01 2.0355E+00 1.9757E+00 8.2031E+01 9.7900E+00	REFLECTED SHOCK 3.6007E+04 3.3248E+02 4.9139E+01 1.4040E+03 2.4813E+01 2.1230E+00 2.2039E+00 8.4020E-01 1.0347E+01  5.4627E-01 7.1274E-02 2.2861E-01 1.4406E-01 9.6230E-03 1.6858E-04 3.2747E-07

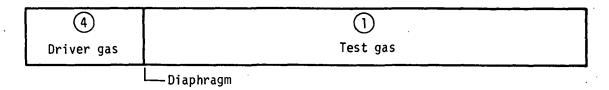
### $p_1 = 500 \text{ kN/m}^2$

P1 = 5.00E+05 N/SQ-M, US1= 1.45E+04 M/SEC	P1 = 5.00E+05 N/SQ-M, US1= 1.55E+04 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.4680E+03 (2.6922E+04 4.3856E+04 T 1.8826E+02 (3.36.3 3.1421E+02 3.8187E+02 RHO 1.0130E+01 3.39066E+01 4.6785E+01 H 7.6293E+02 1.3459E+03 1.7328E+03 A 1.6172E+01 2.3947E+01 2.8313E+01 S 2.0261E+00 2.1348E+00 2.2321E+00 Z 1.8185E+00 2.1933E+00 2.4547E+00 GAME 7.6395E+01 8.3212E+01 8.5519E+01 U 4.3297E+01 1.1212E+01 1.1953E+01
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E-	E- 4.501LE-01 5.4406E-01 5.9262E-01 A 1.7385E-01 7.2253E-02 3.5668E-02 A+ 3.0279E-01 2.3273E-01 1.7183E-01 A++ 7.2442E-02 1.4168E-01 1.7974E-01 A+++ 8.1225E-04 9.1538E-03 1.9276E-02 A++++ 2.3779E-07 1.2626E-04 8.6215E-04 AV 1.6286E-12 1.7043E-07 5.7053E-06 AVI 1.6947E-19 1.7501E-11 4.3850E-09 AVII 1.3295E-28 9.2244E-17 2.7359E-13 AVIII 6.2713E-40 1.7810E-23 9.6189E-19
PL = 5.00E+05 N/SQ-N, USI= 1.50E+04 M/SEC	P1 = 5.00E+05 N/SQ-M, US1= 1.60E+04 M/SEC
MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P 3.2494E+03 2.5469E+04 4.1180E+04 T 1.8102E+02 3.0193E+02 3.6505E+02 RHO 1.0182E+01 3.9768E+01 4.7552E+01 H 7.1463E+02 1.2623E+03 1.6189E+03 A 1.5564E+01 2.3031E+01 2.7134E+01 S 1.9943E+JJ 2.1021E+00 2.1946E+00 L 1.7629E+00 2.1212E+00 2.3723E+00 GAME 7.5906E-01 8.2821E-01 8.5017E-01 U 4.1920E+01 1.0686E+01 1.1398E+01	MOVING SHOCK STANDING SHOCK REFLECTED SHOCK P. 3.6933E+03 2.8433E+04 4.6599E+04 T 1.9550E+02 3.2686E+02 3.9930E+02 RHO 1.U076E+01 3.8390E+01 4.6006E+01 H 8.1280E+02 1.4324E+03 1.8509E+03 A 1.6785E+01 2.4885E+01 2.9517E+01 S 2.0574E+00 2.1675E+00 Z.2676E+00 Z 1.8749E+00 2.2659E+00 Z.5367E+00 GMME 7.6864E-01 8.3617E-01 8.6015E-01 U 4.4670E+01 1.1692E+01 1.2525E+01
SPECIES MOLE FRACTIONS	SPECIES MOLE FRACTIONS
E- 4.3276E-01 5.2856E-01 5.7847E-01 A 1.9780E-01 8.7041E-02 4.5195E-02 A+ 3.0663E-01 2.4755E-01 1.9086E-01 A++ 6.2297E-02 1.2961E-01 1.6932E-01 A+++ 5.1403E-04 7.1628E-03 1.5623E-02 A+++ 9.3646E-08 7.2719E-05 5.2042E-04 AV 3.4847E-13 6.5945E-08 2.3412E-06 AVI 1.6789E-20 4.1203E-12 1.1192E-09 AVII 4.9373E-30 1.1892E-17 3.9364E-14 AVIII 7.2879E-42 1.1297E-24 7.1539E-20	E-

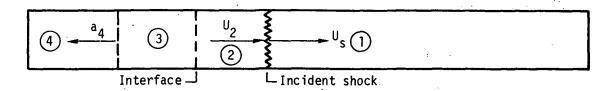
### TABLE 1. - Concluded

# $p_1 = 500 \text{ kN/m}^2$

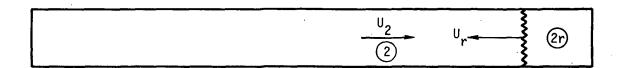
P1 =	5.00E+05 N/SQ-N	1, US1= 1.65E+0	04 M/SEC	Pl =	5.00E+05 N/SQ-M	, US1= 1.75E+0	04 M/SEC
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
ρ	3.9247E+03	2.9907E+04	4. 9336E+04	P	4.4099E+03	3.2993E+04	5.5085E+04
Ť	2.0284E+02	3.3945E+02	4.1682F+02	Ť	2.1764E+02	3.6580E+02	4.5455E+02
RHO	1.0012E+01	3.7700E+01.	4.1082F V02 4.5247E+01	RHO	9.8904E+30	3.6385E+01	
H				H	9.7182E+02	1.7064E+03	2.2285E+03
Ā	8-6421E+02	1.5208E+03	1.9722E+03				3.3191F+01
ŝ	1.7408E+01	2.5817E+01	3.0706E+01	A	1.8661E+01	2.7739E+01	
	2.0888E+00	2.1994E+00	2.3019E+00	Ş	2.1505E+00	2.2628E+00	2.3721E+00
Z	1.9325E+00	2.3369E+00	2.6159E+00	2	2.0486E+00	2.4789E+00	2.7777E+00
GAME	7.7306E-01	8.4022E-01	8.6474E-01	GAME	7.8097E-01	8.4860E-01	8.7251E-01
U	4-6030E+01	1.2205E+01	1.3089E+01	U	4.8767E+01	1.3211E+01	1.4271E+01
SPECIE		MOLE FRACTIONS		SPEC 16	s	- MOLE FRACTIONS	·
E- '	4.8253E-01	5.7209E-01	6.1772E-01	£-	5.1187E-01	5.9659E-01	6.3998E-01
A	1.3206E-01	4.8973E-02	2.1799E-02	A	9.8295E-02	3.2457E-02	1.2847E-02
A+ ·	2,9008E-01	2.0062E-01	1-3546E-01	A+	2.7131E-01	1.6756E-01	1.0247E-01
A++	9.3526E-02	1.6383E-01	1.9501E-01	A++	1.1501E-01	1.8200E-01	2-0172E-01
A+++	1.7993E-03	1.4145E-02	2.7830E-02	A+++	3.5090E-03	2.0547E-02	3.7952E-02
A++++	1.2410E-06	3.4464E-04	2.1517E-03	A+++	5.1716E-06	8.4309E-04	4.88916-03
AV	2.5784E-11	9.7381E-07	2.9199E-05	ÂV	2.8624E-10	4.6918E-06	1.2992E-04
AVI	1.0725E-17	2.5055E-10	5.3920E-08	IVA	4.0808E-16	2.7861E-09	5.3991 E-07
AVII	4-9017E-26	4.0081E-15	9.6760E-12	IIVA	8.7732E-24	1.2258E-13	2.5647E-10
LIIVA	1.8696E-36	2.83796-21	1.1349E-16	LIIVĀ	2.0996E-33	2.7844E-19	9.0430E-15
P1 =	5.00E+05 N/SQ-M	. US1= 1.70E+0	04 M/SEC	P1 =	5.00E+05 N/SQ-M	, US1= 1.80E+0	04 M/SEC
P1 =	5.00E+05 N/SQ-M	•		P1 =			•
P		•		P1 =		, US1= 1.80E+0  STANDING SHOCK 3.4566E+04	•
	MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK		MOVING SHOCK	STANDING SHOCK	REFLECTED SHOCK
P	MOVING SHOCK 4-1661E+03	STANDING SHOCK 3.1508E+04	REFLECTED SHOCK 5-2282E+04	P	MOVING SHOCK	STANDING SHOCK 3.4566E+04	REFLECTED SHOCK 5.8061E+04
P T	MOVING SHOCK 4-1661E+03 2-1017E+02	STANDING SHOCK 3.1508E+04 3.5268E+02	REFLECTED SHOCK 5-2282E+04 4-3569E+02	P T	MOVING SHOCK 4.6625E+03 2.2507E+02	STANDING SHOCK 3.4566E+04 3.7936E+02	REFLECTED SHOCK 5.8061E+04 4.7339E+02
P T RHO H	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.4483E+01	Р Т RHO	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01	REFLECTED SHOCK 5.8061E+04 4.7339E+02 4.2972E+01
P T RHO H A S	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.4483E+01 2.0995E+03	Р Т RHO H	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03	REFLECTED SHOCK 5.8061E+04 4.7339E+02 4.2972E+01 2.3620E+03
P T RHO H A S	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.4463E+01 2.0995E+03 3.1960E+01	P T RHO H A	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9284E+01	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03 2.8712E+01	REFLECTED SHOCK 5.8061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01
P T RHO H A S	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01 2-1194E+00	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.4485E+01 2.0995E+03 3.1960E+01 2.3372E+00	P T RHO H A S	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9244E+01 2.1805E+00	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03 2.8712E+01 2.2938E+00	REFLECTED SHOCK 5.8061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00
P T RHO H A S	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01 2-1194E+00 1-9897E+00	\$TANDING \$HOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.468E+01 2.0995E+03 3.1960E+01 2.3372E+00 2.6976E+00	P T RHO H A S Z	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9284E+01 2.1805E+00 2.1063E+30	STANDING SHOCK 3.4566E+04 3.7936E+02 3.575E+01 1.8027E+03 2.8712E+01 2.2938E+00 2.5484E+00	REFLECTED SHOCK 5.8061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00
P T RHO H A S Z GAME	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+02 1-8027E+02 1-8027E+01 2-1194E+00 7-7715E-01 4-7425E+01	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00 8.4447E-01	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.4682E+01 2.0995E+03 3.1960E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01	P T RHO H A S Z GAME	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9244E+01 2.1805E+00 2.1003E+30 7.8448E-01 5.0129E+01	\$TANDING \$HOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03 2.8712E+01 2.2938E+00 2.5484E+00 8.5274E-01	REFLECTED SHOCK 5.8061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01
P T RHO M A S Z GAME U	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01 2-1194E+00 1-9897E+00 7-7715E-01 4-7425E+01	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00 8.4447E-01 1.2704E+01	REFLECTED SHOCK 5.2282E+04 4.356.9E+02 4.4483E+01 2.0995E+03 3.196.0E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01	P T RHO H A S Z GAME U	MDVING SHOCK 4.6625E+03 2.250TE+02 9.8354E+00 1.0280E+03 1.9284E+01 2.1805E+00 2.1063E+30 7.84+8E-01 5.0129E+01	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03 2.8712E+01 2.2938E+00 2.5484E+00 8.5274E-01 1.3737E+01	REFLECTED SHOCK 5.88061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+02 1-732E+02 1-8027E+01 2-1194E+00 1-9897E+00 7-7715E-01 4-7425E+01	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00 8.4447E-01 1.2704E+01	REFLECTED SHOCK 5.2282+04 4.3569E+02 4.4483E+01 2.0995E+03 3.1960E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01	P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9284E+01 2.1805E+00 2.1043E+00 7.8448E-01 5.0129E+01	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03 2.8712E+01 2.2938E+00 2.5484E+00 8.5274E+01 1.3737E+01  - MOLE FRACTIONS 6.0760E-01	REFLECTED SHOCK 5.8061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01
P T RHO H A S Z GAME U SPECIE	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01 2-1194E+00 7-7715E-01 4-7425E+01	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2213E+00 2.4087E+00 8.4447E-01 1.2704E+01	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.4483E+01 2.0995E+03 3.1960E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01	P T RHO H A S Z GAME U SPECIE E- A	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9244E+01 2.1805E+00 2.1063E+00 7.8448E-01 5.0129E+01 S	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03 2.8712E+01 2.2938E+00 2.5484E+00 8.5274E-01 1.3737E+01  - MOLE FRACTIONS 6.0760E-01 2.6242E-02	REFLECTED SHOCK 5.8061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01  6.4964E-01 9.9421E-03
P T RHO H A S GAME U SPECIE	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01 2-1194E+00 1-9897E+00 7-7715E+01 4-7425E+01	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00 8.4447E-01 1.2704E+01	REFLECTED SHOCK 5.2282E+04 4.356.9E+02 4.4463E+01 2.0995E+03 3.196.0E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01	P T RHO H A S Z GAME U SPECIE E- A	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9244E+01 2.1805E+00 2.1063E+01 5.0129E+01 S	\$TANDING \$HOCK 3.4566E04 3.7936E02 3.5755E01 1.8027E03 2.8712E01 2.2938E00 2.5484E00 8.5274E-01 1.3737E01  - MOLE FRACTIONS 6.0760E-01 2.6242E-02 1.5154E-01	REFLECTED SHOCK 5.88061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01
P T RHO M A S Z GAME U SPECIE	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+02 1-8027E+01 2-1194E+00 1-9897E+00 7-7715E-01 4-7425E+01 S	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00 8.4447E-01 1.2704E+01	REFLECTED SHOCK 5.2282+04 4.3569E+02 4.4483E+01 2.0995E+03 3.1960E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01  6.2930E-01 1.6750E-02 1.1819E-01 1.9959E-01	P T RHO H A S Z GAME U SPECIE E- A A+ A+	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9284E+01 2.1805E+00 2.1043E+00 7.848E-01 5.0129E+01 S 5.2523E-01 8.4411E-02 2.6019E-01 1.2546E-01	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03 2.8712E+01 2.2938E+00 2.5484E+00 8.5274E-01 1.3737E+01  - MOLE FRACTIONS 6.0760E-01 2.6242E-02 1.5154E-01 1.8910E-01	REFLECTED SHOCK 5.88061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01  6.4964E-01 9.9421E-03 8.8787E-02 2.0150E-01
P T RHO H A S Z GAME U SPECIE E-A A+++	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01 2-1194E+00 1-9897E+00 7-7715E-01 4-7425E+01	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00 8.4447E-01 1.2704E+01	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.4482E+01 2.0995E+03 3.1760E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01  6.2930E-01 1.6750E-02 1.8819E-01 1.9959E-01 3.2800E-02	P T RHO H A S Z GAME U SPECIE E- A+ A+ A++	MDVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9284E+01 2.1805E+00 2.1805E+00 5.0129E+01 5.0129E+01 5.2523E-01 8.4411E-02 2.6019E-01 1.2546E-01 4.6927E-03	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03 2.8712E+01 2.2938E+00 2.5484E+00 8.5274E-01 1.3737E+01  - MOLE FRACTIONS 6.0760E-01 2.6242E-02 1.5154E-01 1.8910E-01 2.4246E-02	REFLECTED SHOCK 5.88061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01  6.4964E-01 9.9421E-03 8.8787E-02 2.0150E-01 4.2950E-02
P T RHO H A S Z GAME U SPECIE E-A+A+A++A++A++A+++A+++A++++A++++A++++	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01 2-1194E+00 1-7877EE-01 4-7425E+01 S	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00 8.4447E-01 1.2704E+01	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.4463E+01 2.0995E+03 3.1960E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01  6.2930E-01 1.6750E-02 1.1819E-01 1.9959E-01 3.2800E-02 3.3014E-03	P T RHO H A S Z GAME U SPECIE E- A 4+ A++ A+++	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9244E+01 2.1805E+00 2.1003E+00 7.8448E-01 5.0129E+01 S	STANDING SHOCK 3.4566E04 3.7936E02 3.5755E01 1.8027E03 2.8712E01 2.2938E00 2.5484E00 8.5274E-01 1.3737E01  - MOLE FRACTIONS 6.0760E-01 2.6242E-02 1.5154E-01 1.8910E-01 2.4246E02 1.2699E-03	REFLECTED SHOCK 5.88061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01  6.4964E-01 9.9621E-03 8.8787E-02 2.0150E-01 4.2950E-02 6.9387E-03
P T RHO H A S Z GAME U SPECIE E-A A+++ A+++ A+++ AV	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01 2-1194E+00 1-9897E+00 7-7715E-01 4-7425E+01	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00 8.4447E-01 1.2704E+01	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.468E+01 2.0995E+03 3.1960E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01  6.2930E-01 1.6750E-02 1.1819E-01 1.9959E-01 3.2800E-02 3.3014E-03 6.3395E-05	P T RHO H A S Z GAME U SPECIE E- A 4+ A++ A+++ A+++	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9284E+01 2.1805E+00 2.1043E+30 7.8448E-01 5.0129E+01 S	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03 2.8712E+01 2.2938E+00 2.5484E+00 8.5274E+01 1.3737E+01 - MOLE FRACTIONS 6.0760E+01 2.6242E+02 1.5154E+01 1.8910E+01 2.4246E+02 1.2699E+03 9.7123E+00	REFLECTED SHOCK 5.88061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01  6.4964E-01 9.9421E-03 6.8787E-02 2.0150E-01 4.2950E-02 6.9387E-03 2.4880E-04
P T RHO H A S Z GAME U SPECIE E A A + + + + + + + + + + + + + + + +	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01 2-1194E+00 1-9897E+00 7-7715E+01 4-7425E+01 5	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00 1.2704E+01 2.2704E+01 2.8483E-01 3.9934E-02 1.8393E-01 1.7357E-01 1.7357E-01 1.7357E-01 2.1964E-06 8.7101E-10	REFLECTED SHOCK 5.2282E+04 4.356.9E+02 4.4482E+01 2.0995E+03 3.196.0E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01  6.2930E-01 1.6750E-02 1.1819E-01 1.9959E-01 3.2800E-02 3.3014E-03 6.3395E-05 1.7823E-07	P T RHO H A S Z GAME U SPECIE E- A 4+ A++ A+++ AV	MDVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9284E+01 2.1805E+00 2.1063E+01 5.0129E+01 5.2523E-01 8.4411E-02 2.6019E-01 1.2546E-01 4.6927E-03 9.7665E-06 8.4376E-10 2.1063E-15	STANDING SHOCK 3.4566E04 3.7936E02 3.5755E01 1.8027E+03 2.8712E+01 2.2938E+00 2.5484E+00 8.5274E-01 1.3737E+01  - MOLE FRACTIONS 6.0760E-01 2.6242E-02 1.5154E-01 1.8910E-01 2.4246E-02 1.2699E-03 9.7123E-06 8.5180E-09	REFLECTED SHOCK 5.88061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01  6.4964E-01 9.9421E-03 8.8787E-02 2.0150E-01 4.2950E-02 6.9387E-03 2.4880E-04 1.4810E-06
P T RHO H A S Z GAME U SPECIE E-A A+++ A+++ A+++ AV	MOVING SHOCK 4-1661E+03 2-1017E+02 9-9627E+00 9-1732E+02 1-8027E+01 2-1194E+00 1-9897E+00 7-7715E-01 4-7425E+01	STANDING SHOCK 3.1508E+04 3.5268E+02 3.7090E+01 1.6132E+03 2.6784E+01 2.2313E+00 2.4087E+00 8.4447E-01 1.2704E+01	REFLECTED SHOCK 5.2282E+04 4.3569E+02 4.468E+01 2.0995E+03 3.1960E+01 2.3372E+00 2.6976E+00 8.6906E-01 1.3677E+01  6.2930E-01 1.6750E-02 1.1819E-01 1.9959E-01 3.2800E-02 3.3014E-03 6.3395E-05	P T RHO H A S Z GAME U SPECIE E- A 4+ A++ A+++ A+++	MOVING SHOCK 4.6625E+03 2.2507E+02 9.8354E+00 1.0280E+03 1.9284E+01 2.1805E+00 2.1043E+30 7.8448E-01 5.0129E+01 S	STANDING SHOCK 3.4566E+04 3.7936E+02 3.5755E+01 1.8027E+03 2.8712E+01 2.2938E+00 2.5484E+00 8.5274E+01 1.3737E+01 - MOLE FRACTIONS 6.0760E+01 2.6242E+02 1.5154E+01 1.8910E+01 2.4246E+02 1.2699E+03 9.7123E+00	REFLECTED SHOCK 5.88061E+04 4.7339E+02 4.2972E+01 2.3620E+03 3.4385E+01 2.4050E+00 2.8542E+00 8.7506E-01 1.4854E+01  6.4964E-01 9.9421E-03 6.8787E-02 2.0150E-01 4.2950E-02 6.9387E-03 2.4880E-04



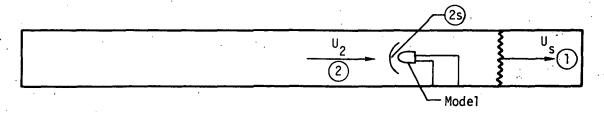
(a) Prior to diaphragm rupture.



(b) Incident (moving) normal shock in test gas.



(c) Reflected normal shock from end wall.



(d) Standing normal shock at test model.

Figure 1.- Sketches illustrating shock-tube regions of interest: regions (2), (2s), and (2r).

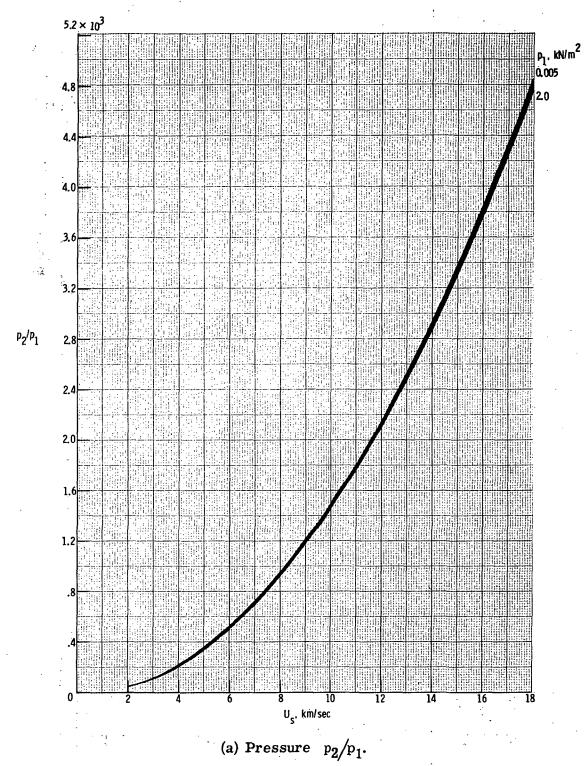
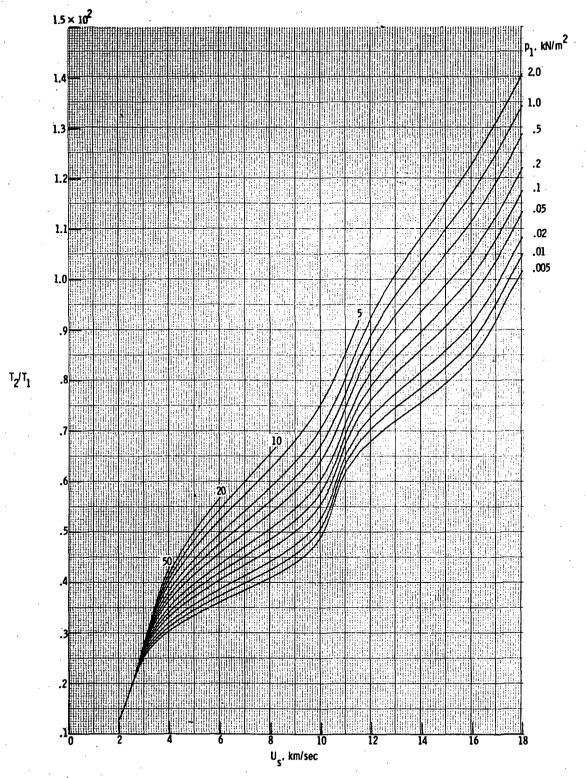
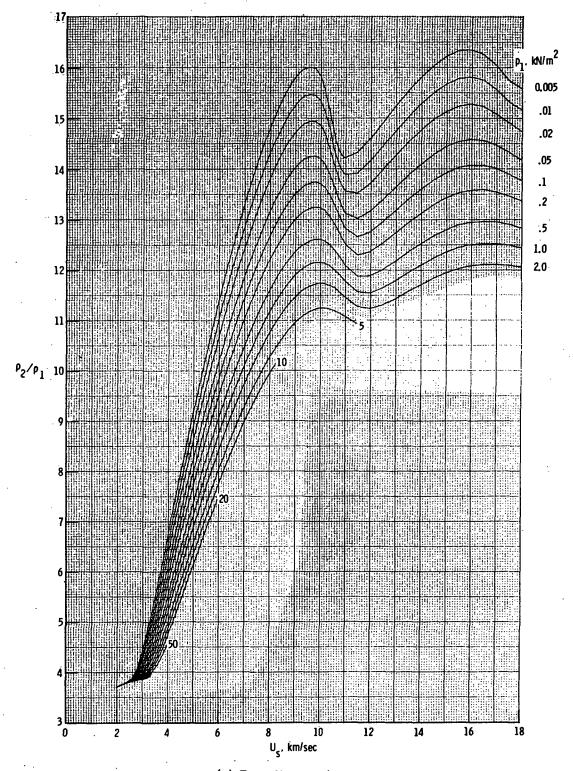


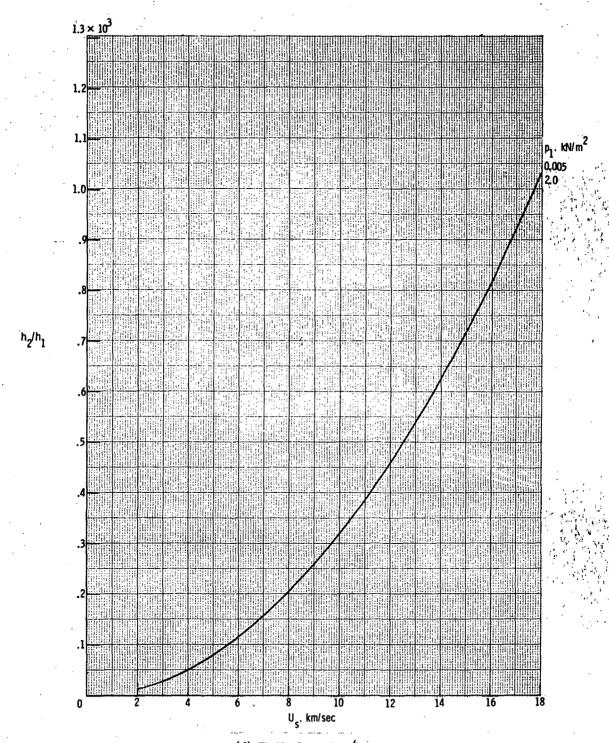
Figure 2.- Thermodynamic properties and flow velocity behind an incident normal shock into pure argon.



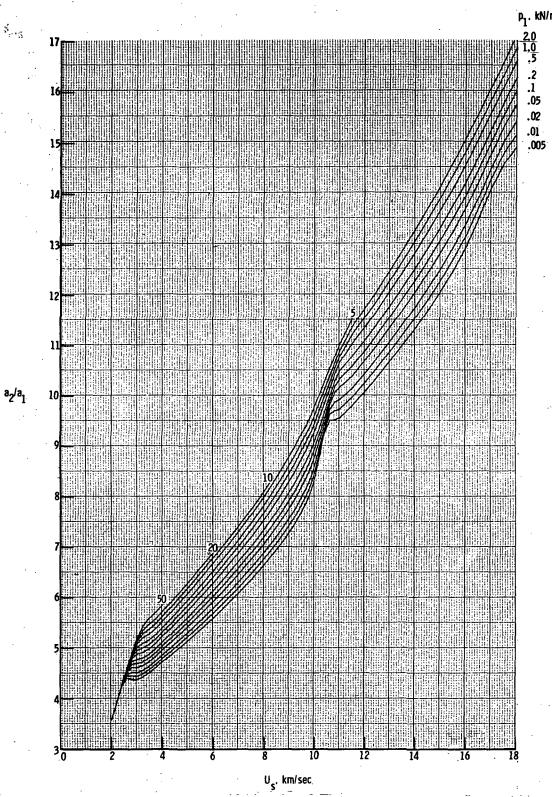
(b) Temperature  $T_2/T_1$ . Figure 2. - Continued.



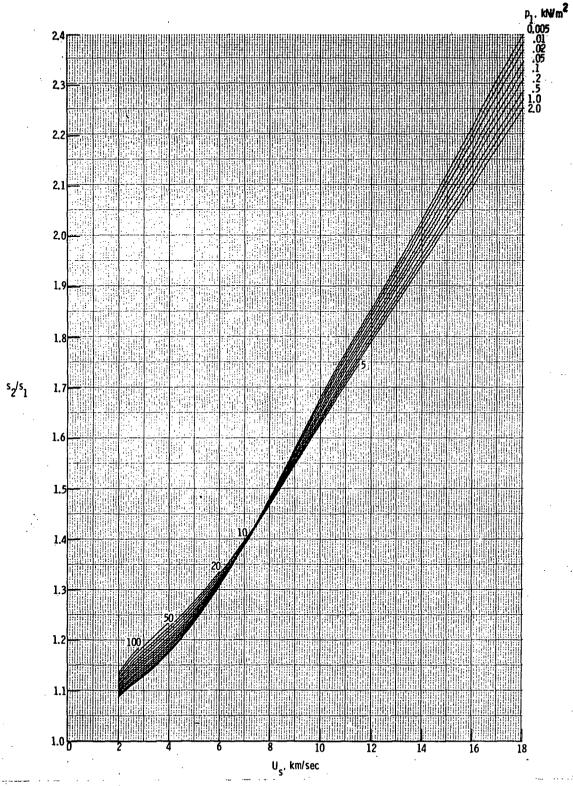
(c) Density  $\rho_2/\rho_1$ . Figure 2.- Continued.



(d) Enthalpy h₂/h₁.
Figure 2.- Continued.

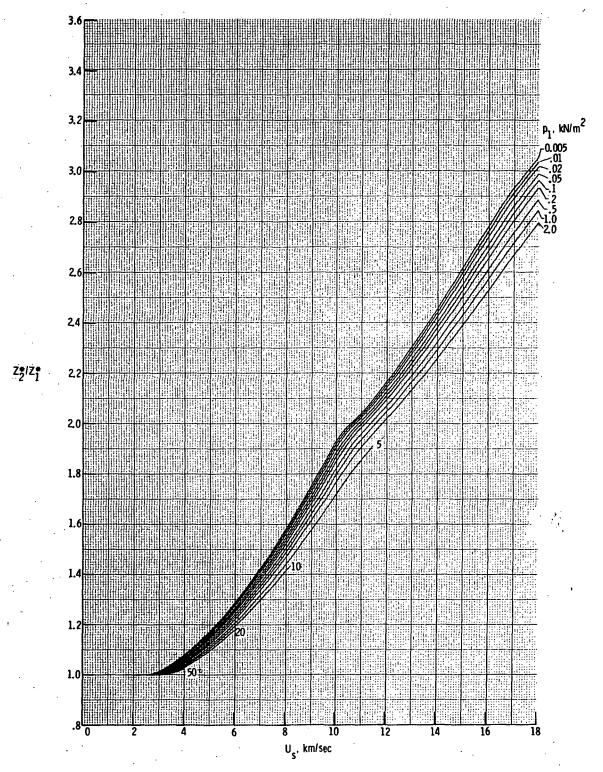


(e) Speed of sound  $a_2/a_1$ . Figure 2.- Continued.

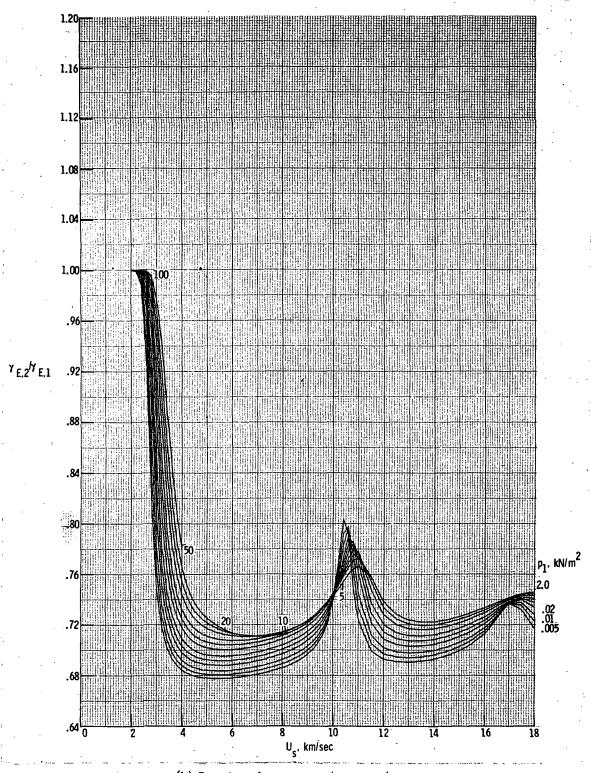


(f) Entropy s₂/s₁.

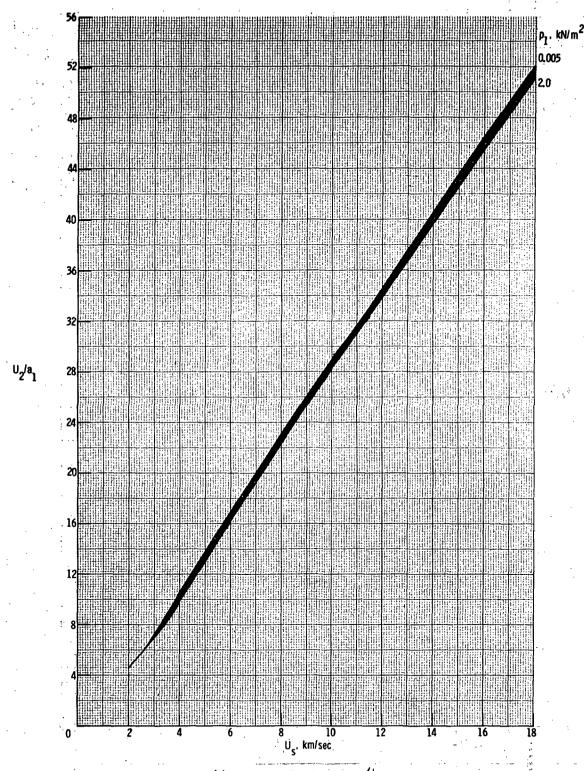
Figure 2.- Continued.



(g) Molecular-weight ratio  $Z_2^*/Z_1^*$ . Figure 2.- Continued.



(h) Isentropic exponent  $\gamma_{\rm E,2}/\gamma_{\rm E,1}$ . Figure 2.- Continued.



(i) Flow velocity U₂/a₁.
Figure 2.- Concluded.

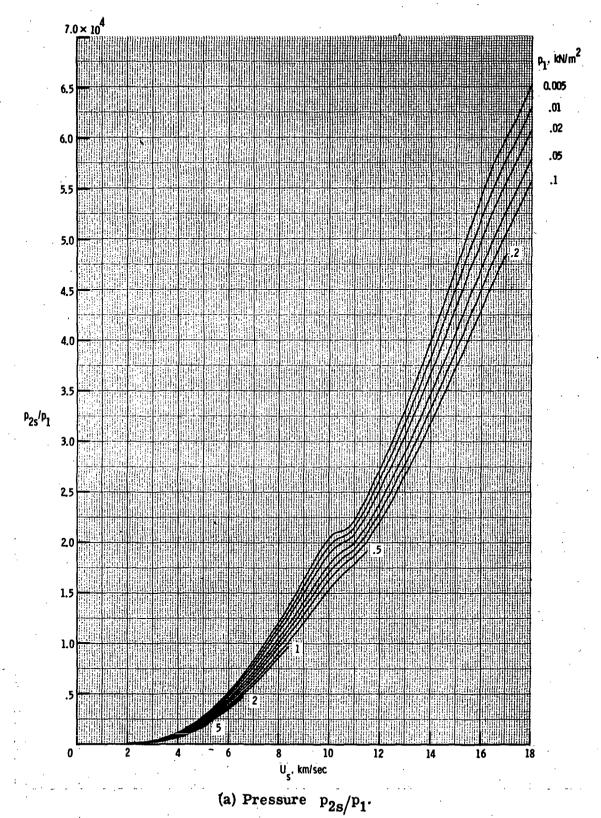
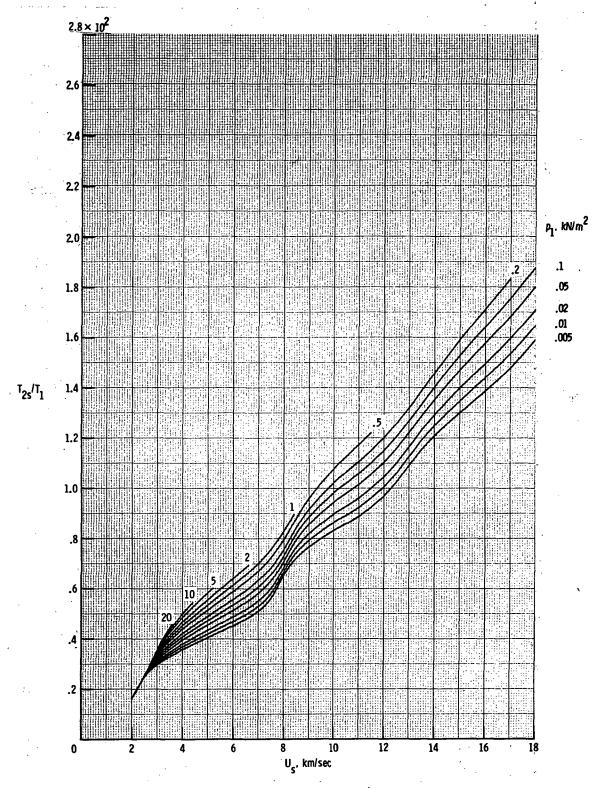


Figure 3.- Thermodynamic properties and flow velocity behind a standing normal shock for pure argon.



(b) Temperature  $T_{2s}/T_1$ . Figure 3. - Continued.

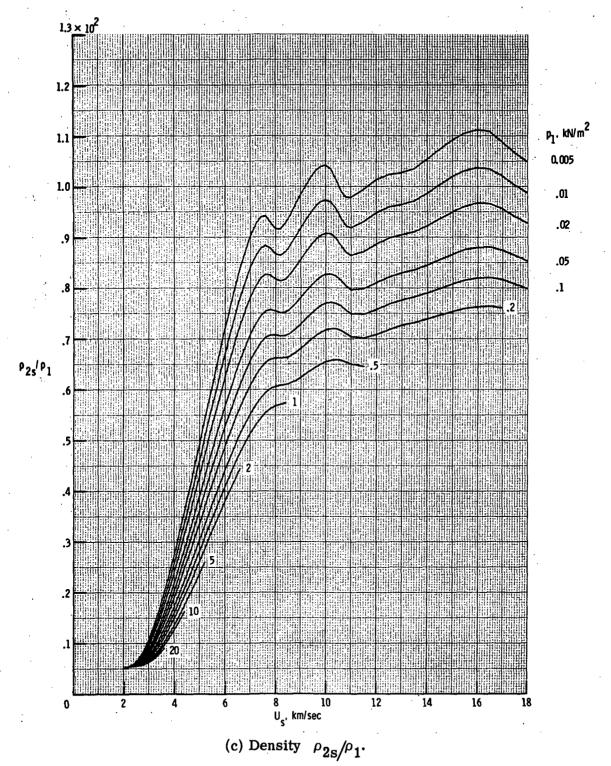
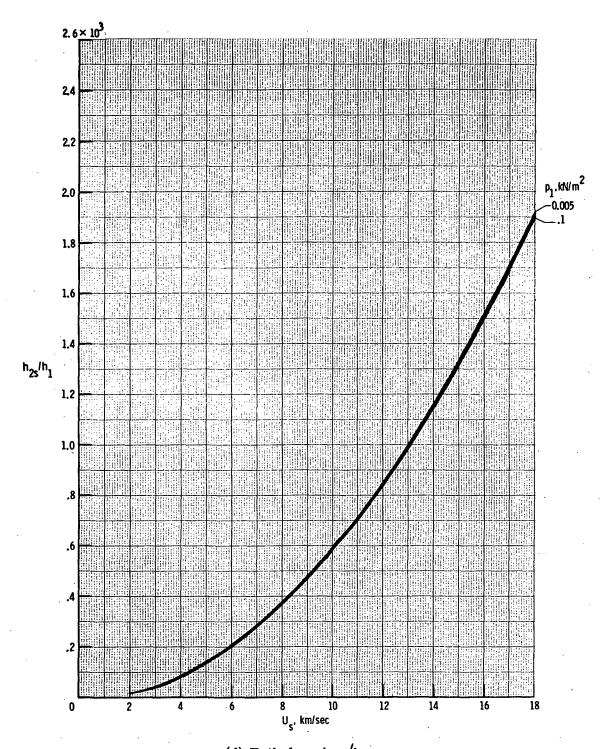
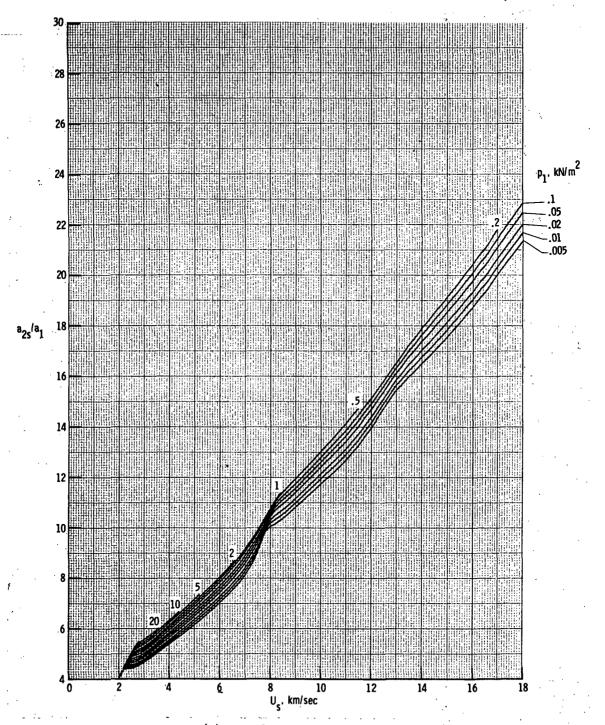


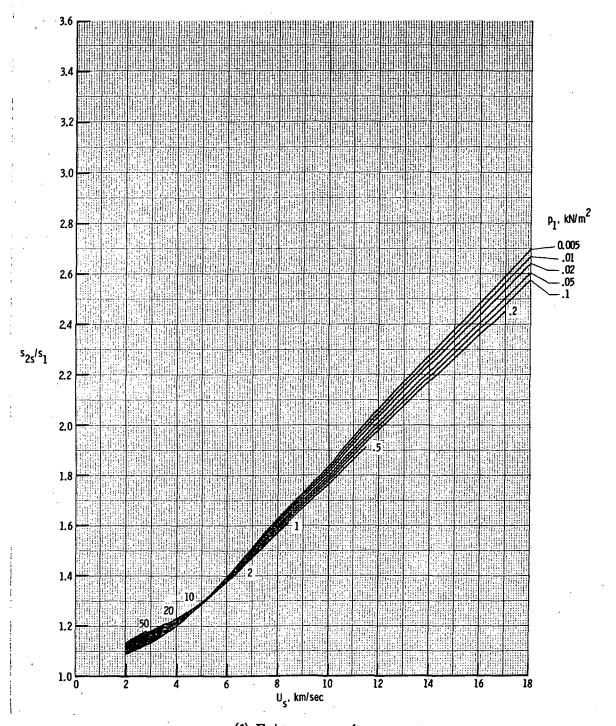
Figure 3.- Continued.



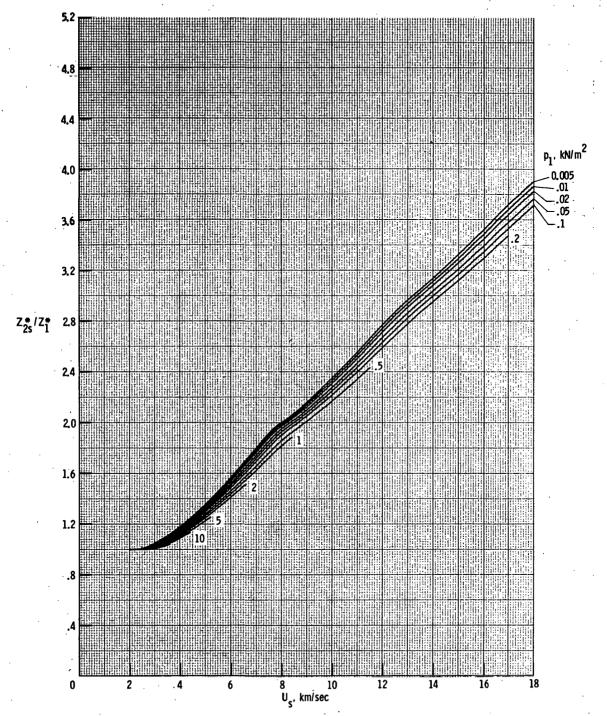
(d) Enthalpy  $h_{2s}/h_1$ . Figure 3.- Continued.



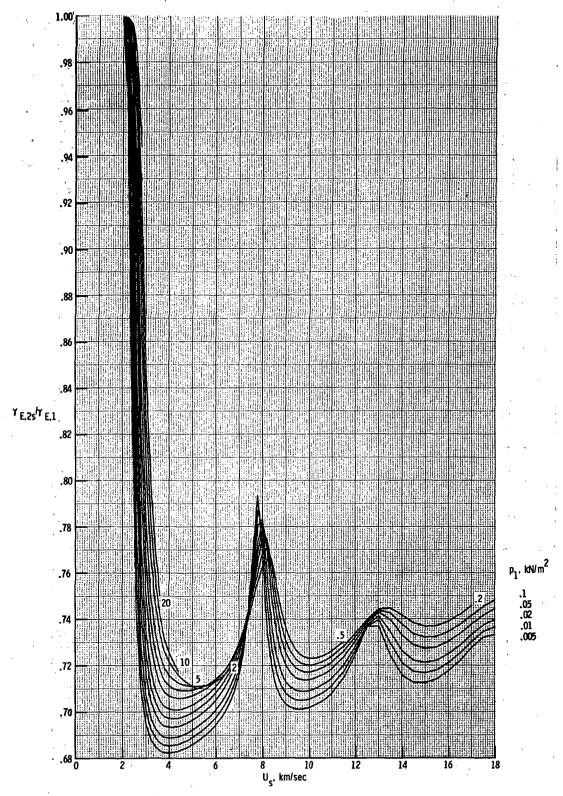
(e) Speed of sound  $a_{2s}/a_1$ . Figure 3.- Continued.



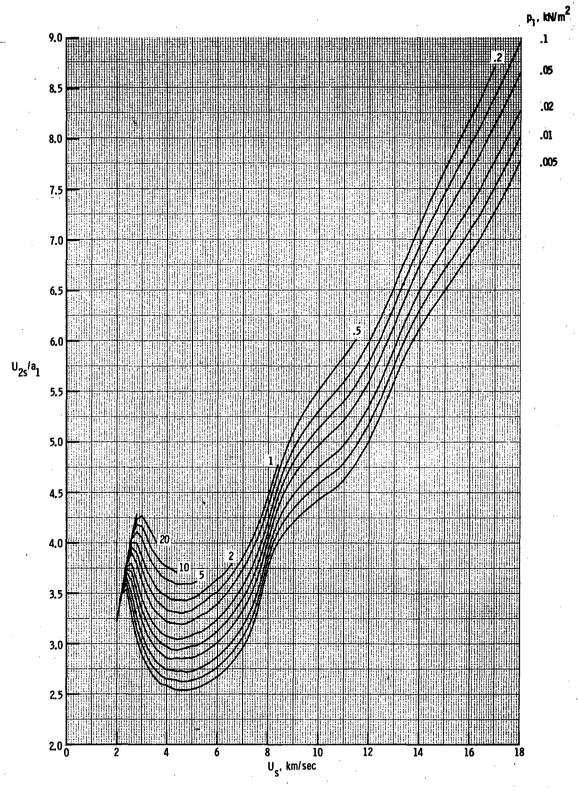
(f) Entropy s_{2s}/s₁. Figure 3.- Continued.



(g) Molecular-weight ratio  $Z_{2s}^*/Z_1^*$ . Figure 3.- Continued.



(h) Isentropic exponent  $\gamma_{\rm E,2s}/\gamma_{\rm E,1}$ . Figure 3.- Continued.



(i) Flow velocity  $U_{2s}/a_1$ . Figure 3.- Concluded.

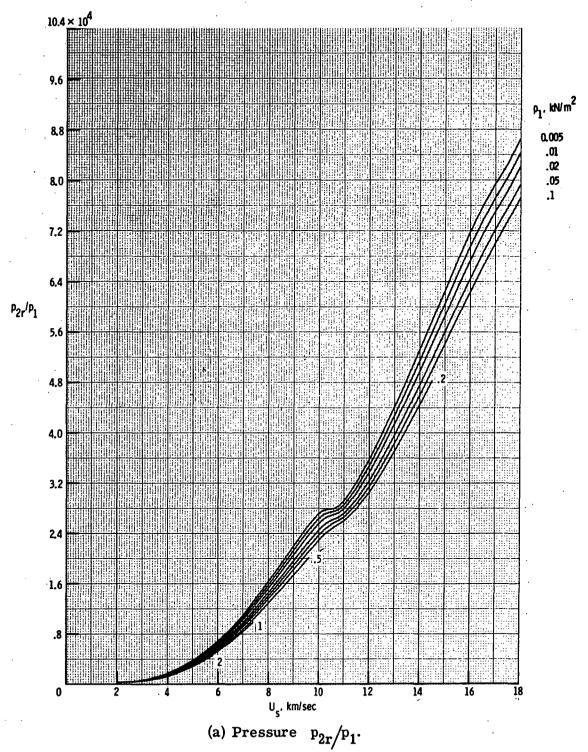
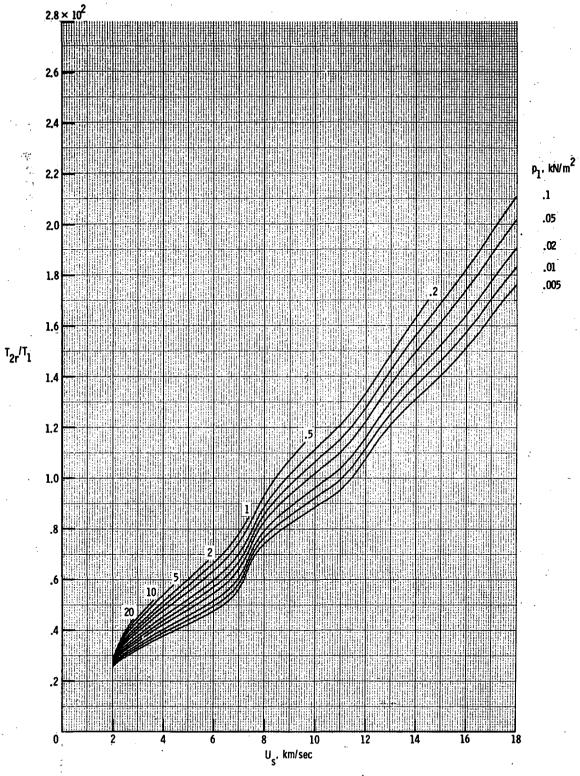
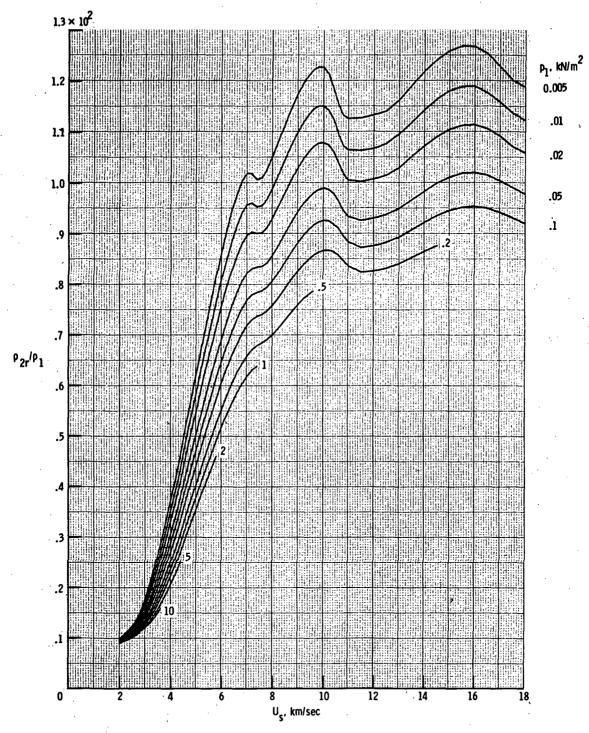


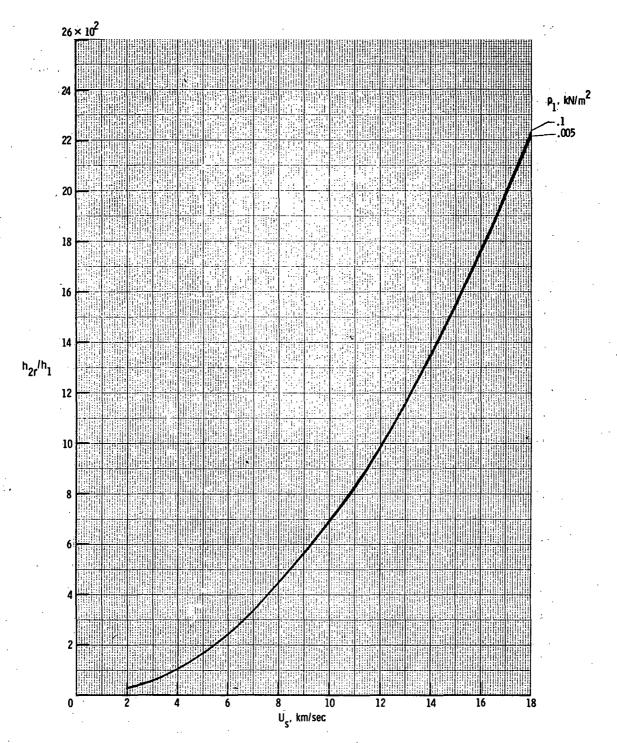
Figure 4.- Thermodynamic properties behind a reflected normal shock and reflected shock velocity for pure argon.



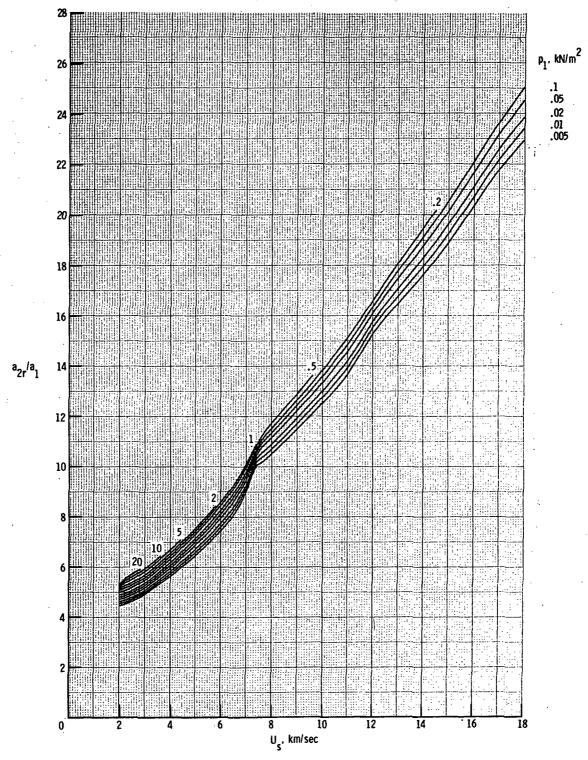
(b) Temperature  $T_{2r}/T_1$ . Figure 4.- Continued.



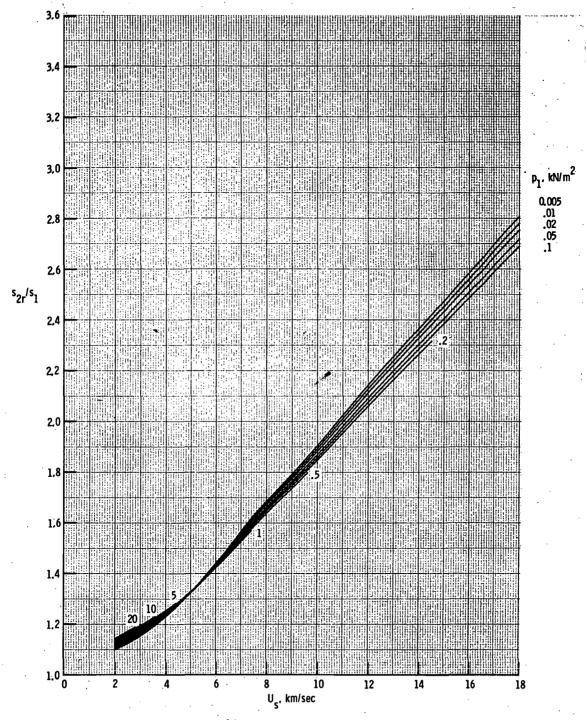
(c) Density  $\rho_{2r}/\rho_1$ . Figure 4.- Continued.



(d) Enthalpy  $h_{2r}/h_1$ . Figure 4.- Continued.

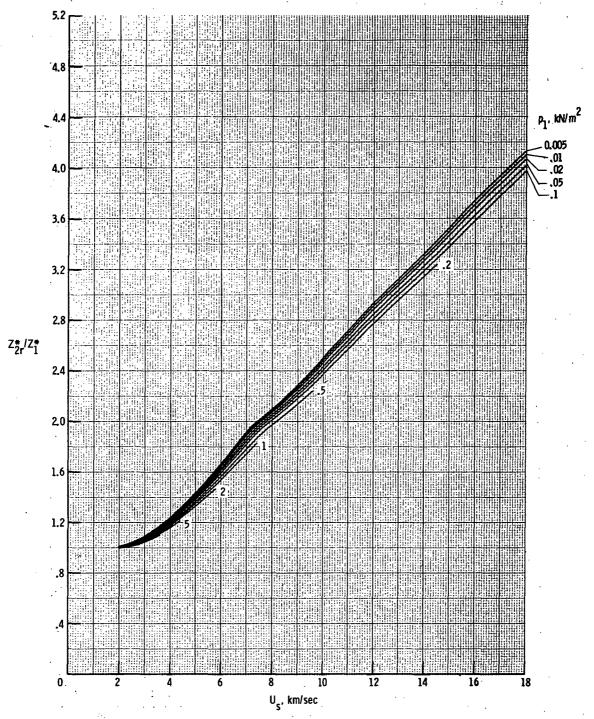


(e) Speed of sound  $a_{2r}/a_1$ . Figure 4.- Continued.

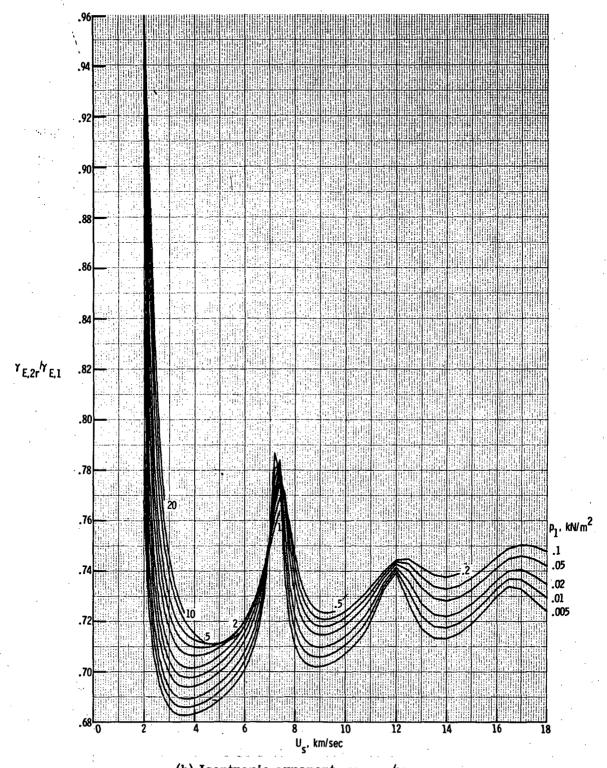


(f) Entropy  $s_{2r}/s_1$ .

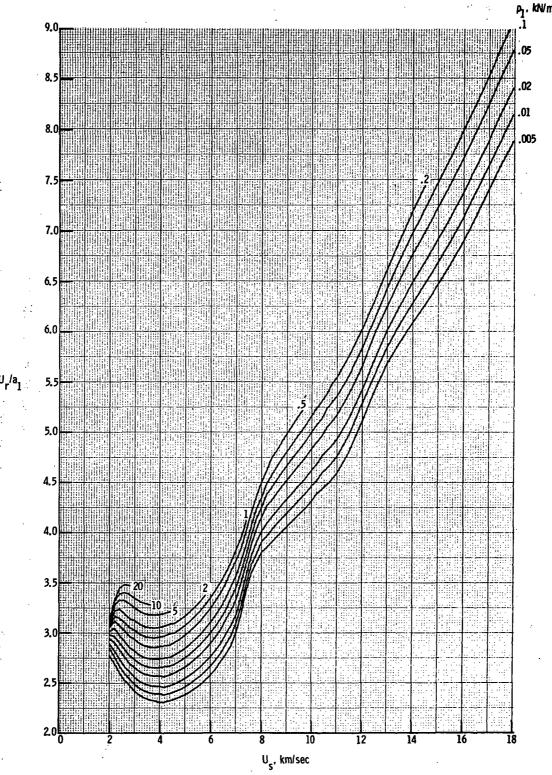
Figure 4.- Continued.



(g) Molecular-weight ratio  $z_{2r}^*/z_1^*$ . Figure 4.- Continued.



(h) Isentropic exponent  $\gamma_{\rm E,2r}/\gamma_{\rm E,1}$ . Figure 4.- Continued.



(i) Reflected shock velocity  $U_r/a_1$ . Figure 4.- Concluded.

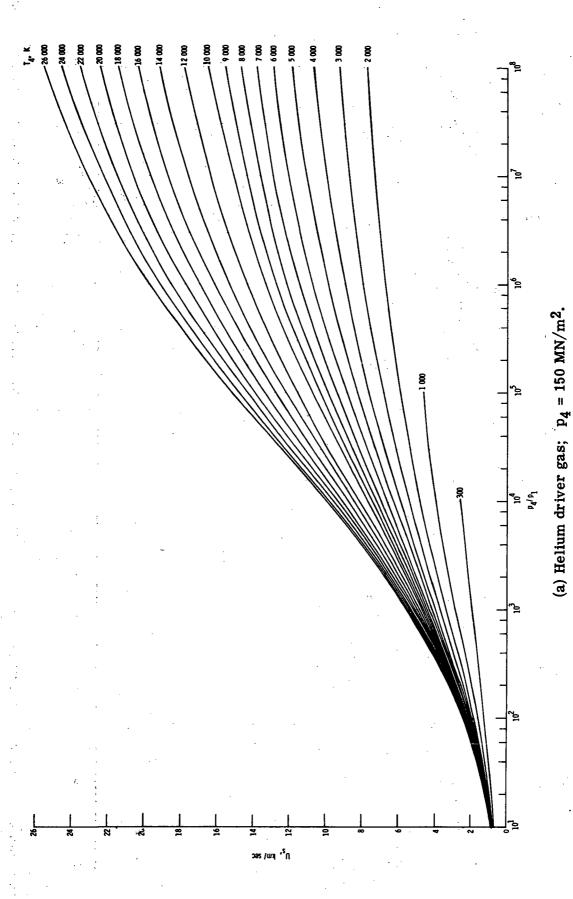


Figure 5.- Incident shock velocity as a function of the ratio of driver-gas pressure to argon test-gas pressure for helium and hydrogen driver gases.

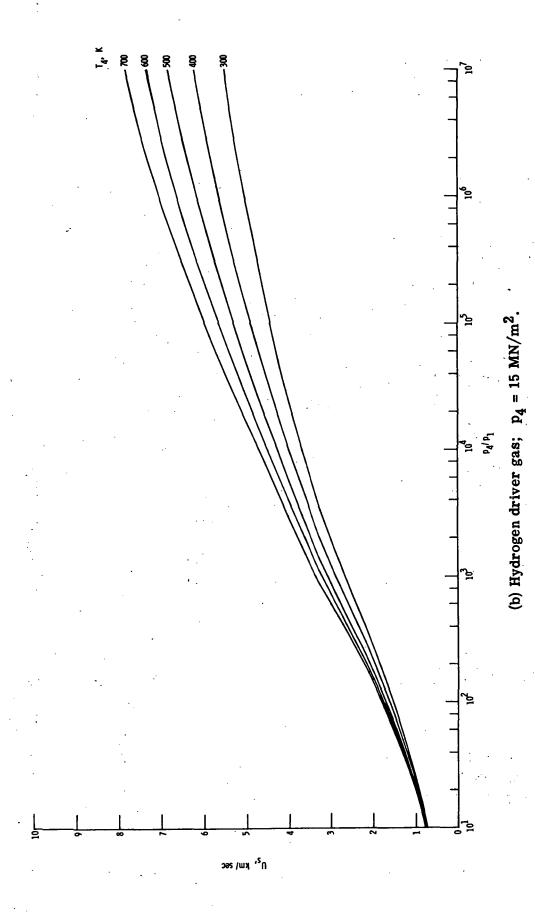


Figure 5.- Concluded.

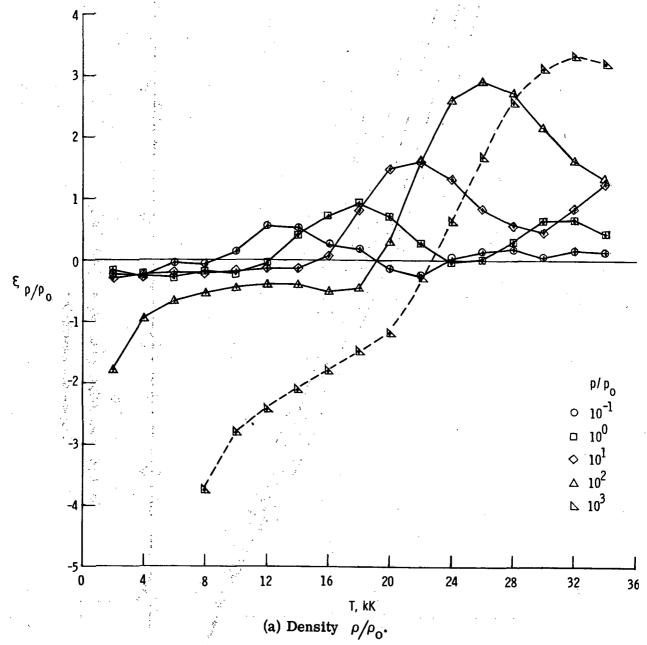


Figure 6.- Comparison of equilibrium thermodynamic properties for argon between method used herein and method of reference 9, where percent difference is plotted as a function of temperature for several pressures.

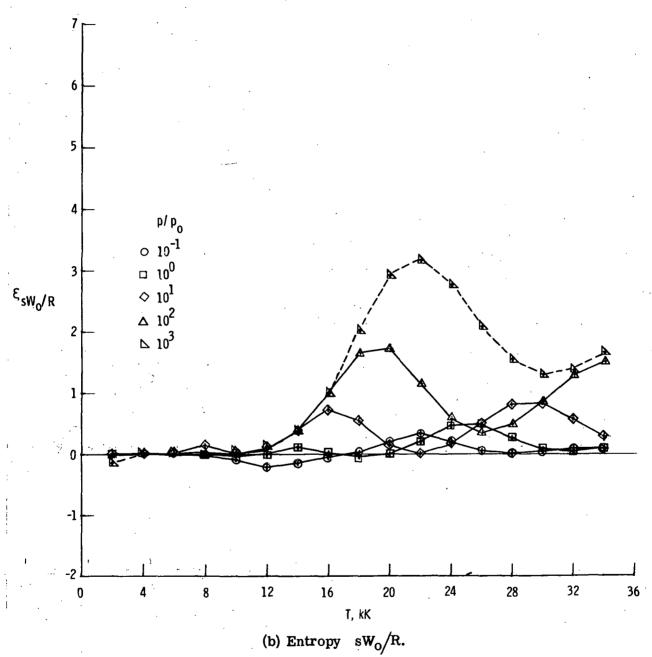


Figure 6.- Continued.

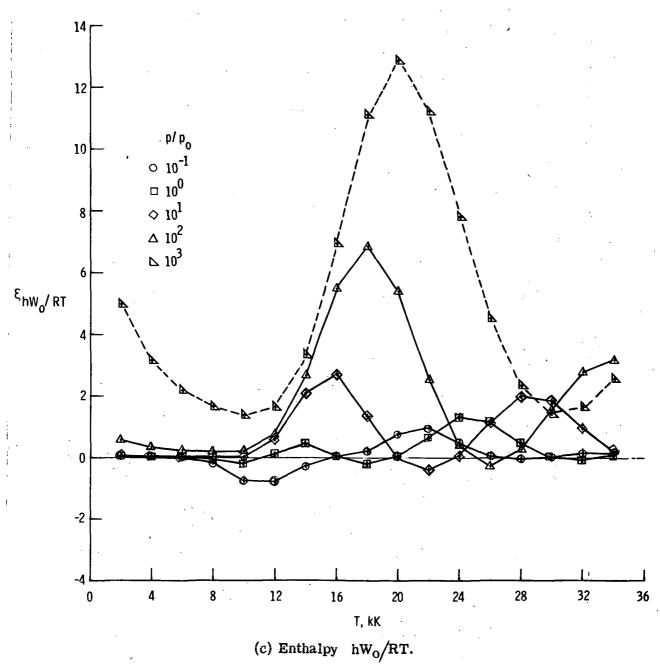
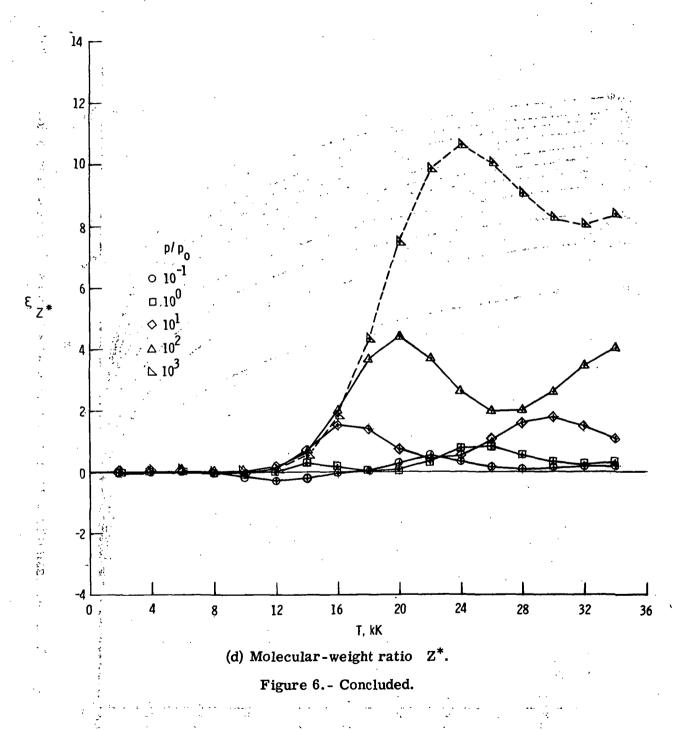


Figure 6. - Continued.



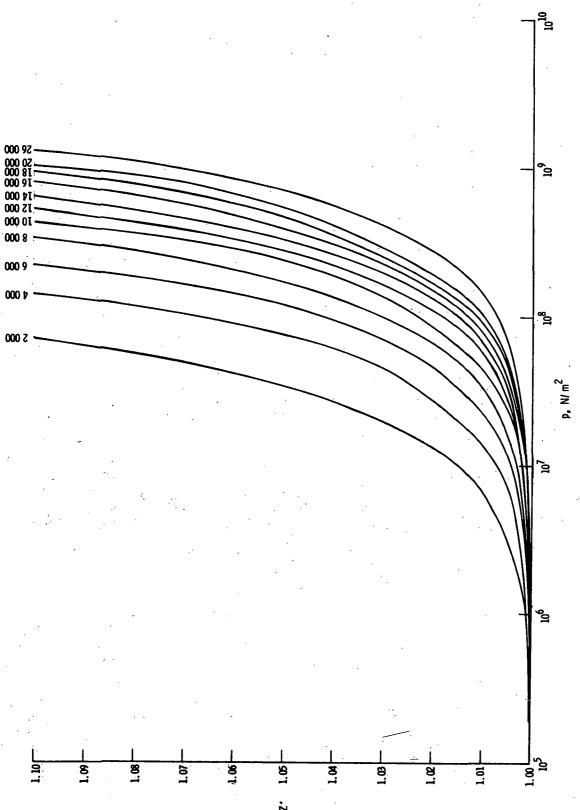


Figure 7.- Compressibility factor for real argon as a function of pressure for various temperatures.

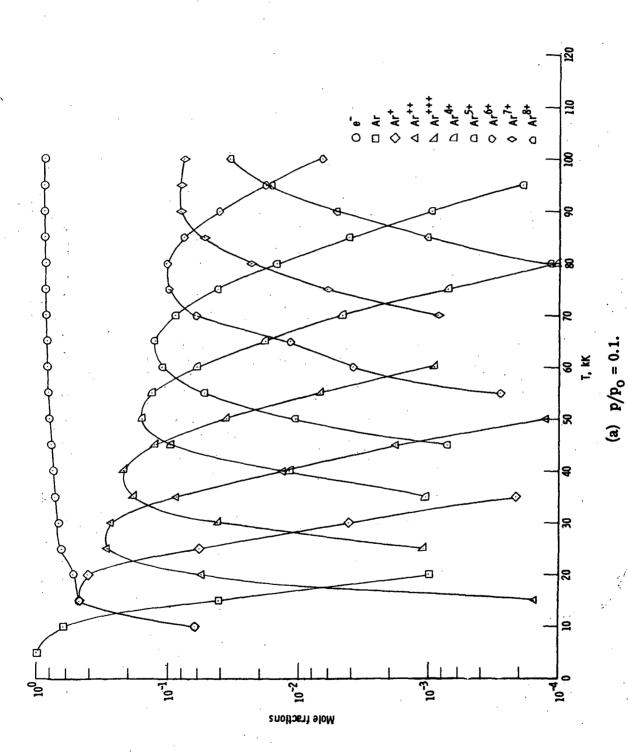
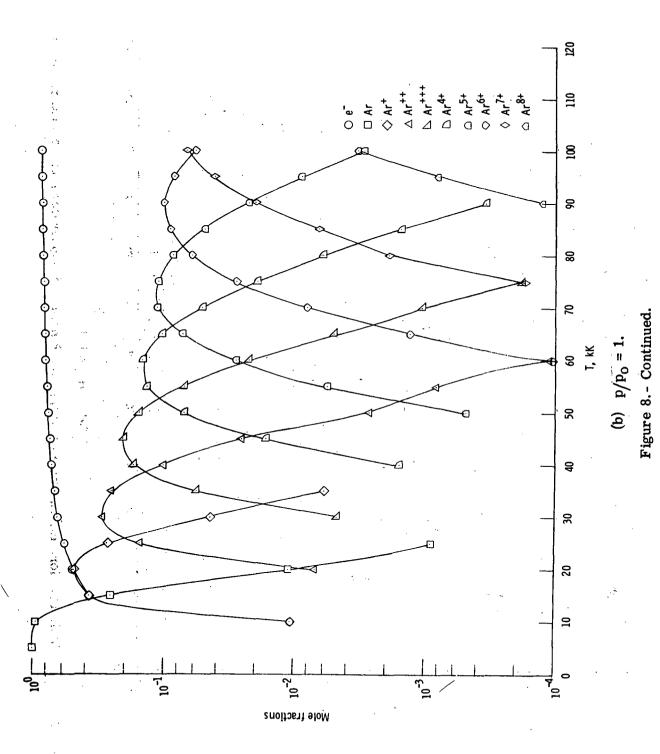
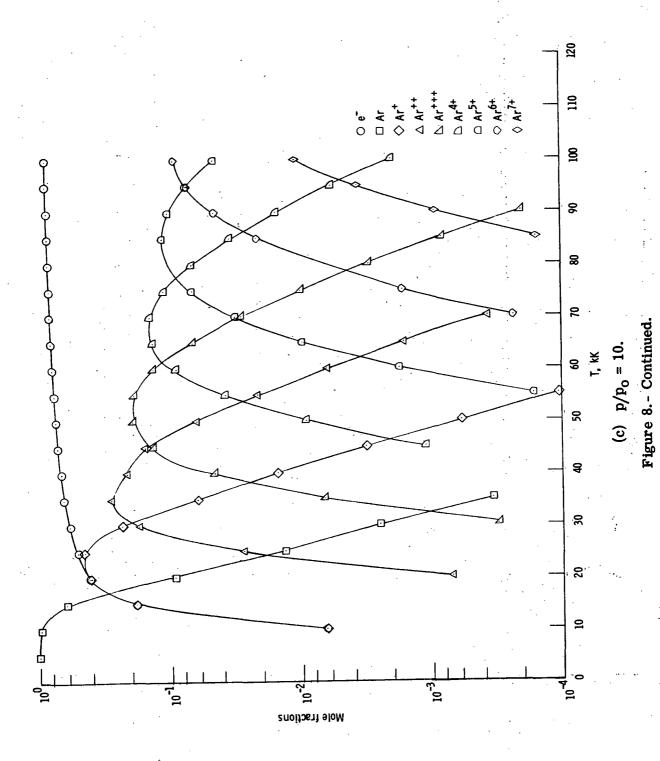


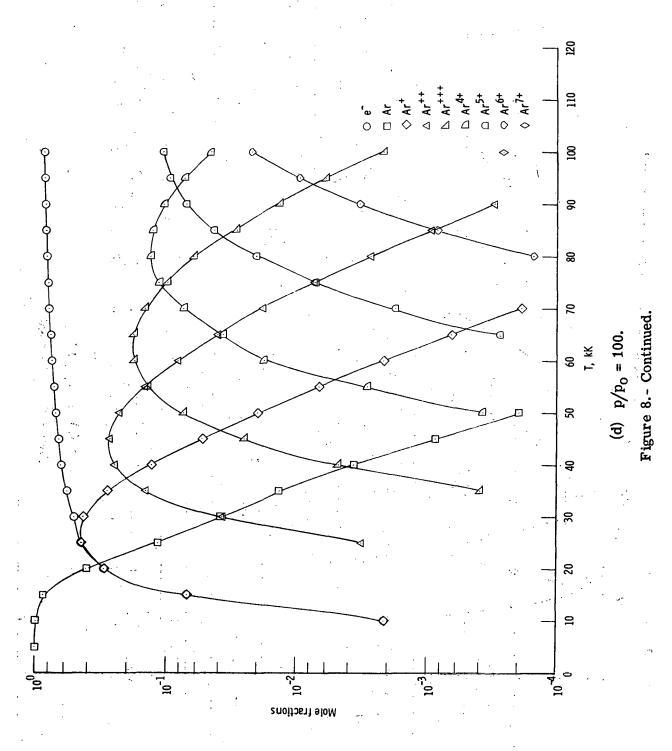
Figure 8. - Mole fractions for equilibrium argon as a function of temperature for several pressures.



95



96



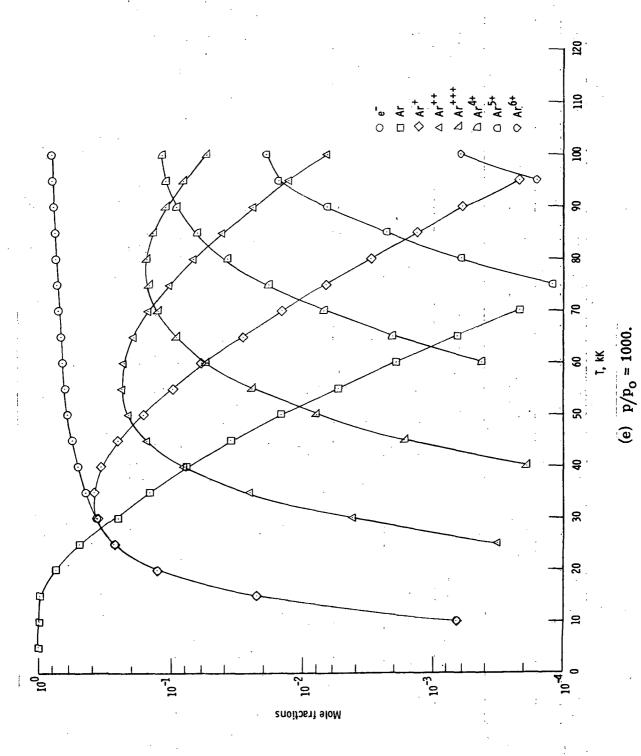


Figure 8. - Concluded.

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